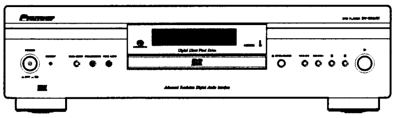
Pioneer sound.vision.soul

Service Manual



DV-989AVi-S

ORDER NO.
RRV3271

DVD PLAYER

DV-989AVi-S
DV-989AVi-G

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Region No.	Remarks
DV-989AVi-S	WYXJ	AC220–240V	2	
DV-989AVi-S	YXJRE	AC220–240V	5	
DV-989AVi-G	HLXJ	AC220-240V	3	
DV-989AVi-S	WPWXJ	AC220–240V	4	

For details, refer to "Important symbols for good services".

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T-ZZR OCT. 2005

SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING !

THE AEL (ACCESSIBLE EMISSION LEVEL) OF THE LASER POWER OUTPUT IS LESS THAN CLASS 1 BUT THE LASER COMPONENT IS CAPABLE OF EMITTING RADIATION EXCEEDING THE LIMIT FOR CLASS 1.
A SPECIALLY INSTRUCTED PERSON SHOULD DO SERVICING OPERATION OF THE APPARATUS.

LASER DIODE CHARACTERISTICS

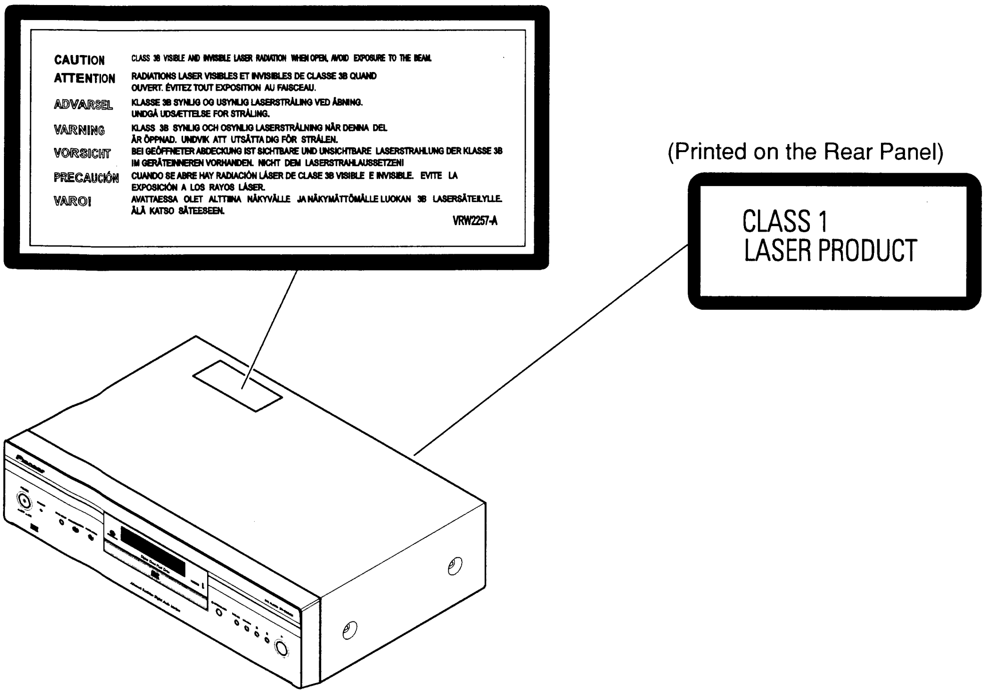
FOR DVD : MAXIMUM OUTPUT POWER : 5 mW
WAVELENGTH : 650 nm
FOR CD : MAXIMUM OUTPUT POWER : 5 mW
WAVELENGTH : 780 nm

LABEL CHECK

Additional Laser Caution

1. Loading-status detection switch (S101 on the LOAB assy) are detected by the microprocessor (IC601 in the DVDM assy).
   • To permit the laser diode to oscillate, it is required to set the loading-status detection switch for the clamp position (the center terminal of S101 is shorted to +3V).
   When the voltage of IC101-pin 21 is +3V, IC601 (microprocessor) -pin 83 is +3V and IC601-pin 84 is +3V, 650nm laser diode for DVD oscillates in the DVDM Assy.
   When the voltage of IC101-pin 21 is +3V, IC601 (microprocessor) -pin 83 is 0V (GND) and IC601-pin 84 is +3V, 780nm laser diode for CD oscillates in the DVDM Assy.
   In the test mode * , the laser diode oscillates when microprocessor detects a PLAY signal, or when the PLAY key is pressed (S104 ON in the FLKY assy), with the above requirements satisfied.
2. When the cover is open, close viewing through the objective lens with the naked eye will cause exposure to the laser beam.

* : See page 87.



CAUTION	CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN, AVOID EXPOSURE TO THE BEAM.
ATTENTION	RADIATIONS LASER VISIBLES ET INVISIBLES DE CLASSE 3B QUAND OUVERT. ÉVITEZ TOUT EXPOSITION AU FAISCEAU.
ADVARSEL	KLASSE 3B SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARNING	KLASS 3B SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. UNDVIK ATT UTSÄTTA DIG FÖR STRÅLEN.
VORSICHT	BEI GEÖFFNETER ABDECKUNG IST SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG DER KLASSE 3B IM GERÄTEINNEREN VORHANDEN. NICHT DEM LASERSTRAHLAUSSETZEN!
PRECAUCIÓN	CUANDO SE ABRE HAY RADIACIÓN LÁSER DE CLASE 3B VISIBLE E INVISIBLE. EVITE LA EXPOSICIÓN A LOS RAYOS LÁSER.
VARO!	AVATTAESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LUOKAN 3B LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

VRW2257-A

(Printed on the Rear Panel)

CLASS 1
LASER PRODUCT

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SPECIFICATIONS

Specifications

General

System	DVD Player
Power requirements	AC 220-240 V, 50/60 Hz
Power consumption	25 W
Power consumption (standby)	0.3 W
Weight	9.0 kg
Weight	(HLXJ model) 10.0 kg
Dimensions	420 (W) x 117 (H) x 340 (D) mm
Operating temperature	+5°C to +35°C
Operating humidity	5% to 85% (no condensation)

HDMI output

HDMI output	19 pin

i.LINK output

i.LINK output	4 pin (S400)

Component Video output (Y, PB, PR)

Output level	Y: 1.0 Vp-p (75 Ω) PB, PR: 0.7 Vp-p (75 Ω)
Jacks	RCA jacks

S-Video output

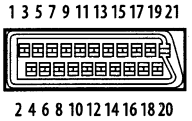
Y (luminance) - Output level	1 Vp-p (75 Ω)
C (color) - Output level	286 mVp-p (75 Ω)
Jack	S-Video jack

Video output

Output level	1 Vp-p (75 Ω)
Jack	RCA jack

AV connector output

AV Connector (21-pin connector assignment)
AV connector output.........21-pin connector
This connector provides the video and audio signals for connection to a compatible color TV or monitor.



PIN no.	
1	Audio 2/R out
3	Audio 1/L out
4	GND
7	B* out
8	Status
11	G* out
15	R* or C* out
17	GND
19	Video out or Y* out
21	GND

*AV CONNECTOR 1 (RGB)-TV/AV Receiver is output

Audio output (1 stereo pair)

Output level	During audio output 200 mVrms (1 kHz, –20 dB)
Number of channels	2
Jacks	RCA jack

Audio output (multi-channel / L, R, C, SW, LS, RS)

Output level	During audio output 200 mVrms (1 kHz, –20 dB)
Number of channels	6
Jacks	RCA jack

Audio characteristics

Frequency response	4 Hz to 44 kHz(DVD fs: 96 kHz) 4 Hz to 88 kHz (DVD-Audio fs: 192 kHz)
S/N ratio	118dB
Dynamic range	108.8dB
Total harmonic distortion	0.0008 %
Wow and flutter	Limit of measurement (0.001% W. PEAK) or lower

Digital output

Optical digital output	Optical digital jack
Coaxial digital output	RCA jack

Other terminals

Control in	Minijack (3.5ø)
Control out	Minijack (3.5 ø)

Accessories

Stereo audio cable	1
Video cable	1
4-pin S400 i.LINK cable	1
Power cable	1
Remote control	1
AA/R6P dry cell batteries	2
Warranty card	1
These operating instructions	

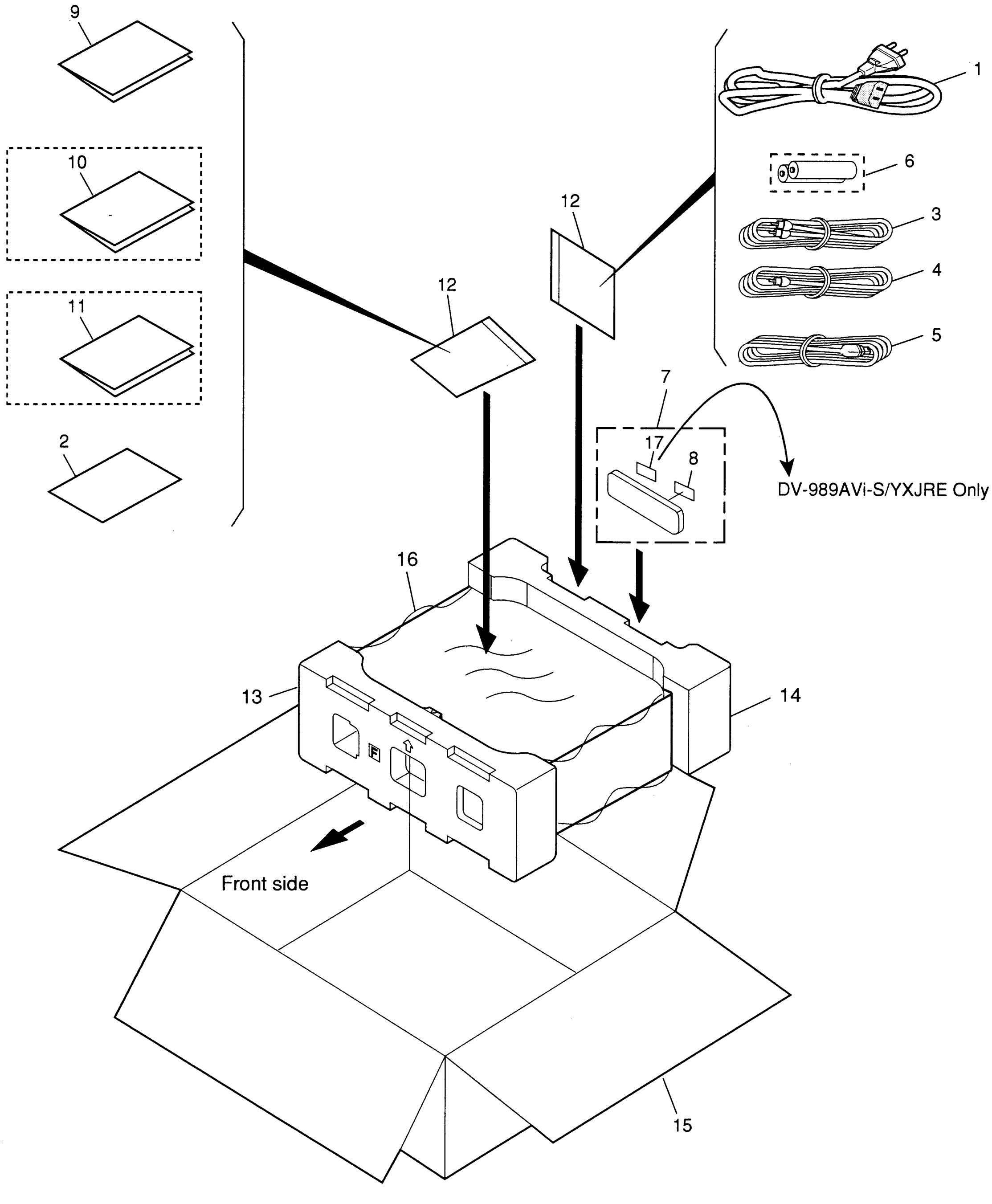
Note

The specifications and design of this product are subject to change without notice, due to improvement.

2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

2.1 PACKING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DV-989AVi-S/YXJRE Only
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Front side
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PACKING parts List

Mark	No.	Description	Part No.
⚠	1	Power Cable	See Contrast table (2)
NSP	2	Warranty Card	See Contrast table (2)
	3	Stereo Audio Cable (L = 1.5 m)	VDE1064
	4	Video Cable (L = 1.5 m)	VDE1065
	5	4-pin S400 i.LINK Cable (L = 1.5 m)	VDE1076
NSP	6	Dry Cell Battery	See Contrast table (2)
	7	Remote Control	See Contrast table (2)
	8	Battery Cover	See Contrast table (2)
	9	Operating Instructions	See Contrast table (2)
	10	Operating Instructions	See Contrast table (2)

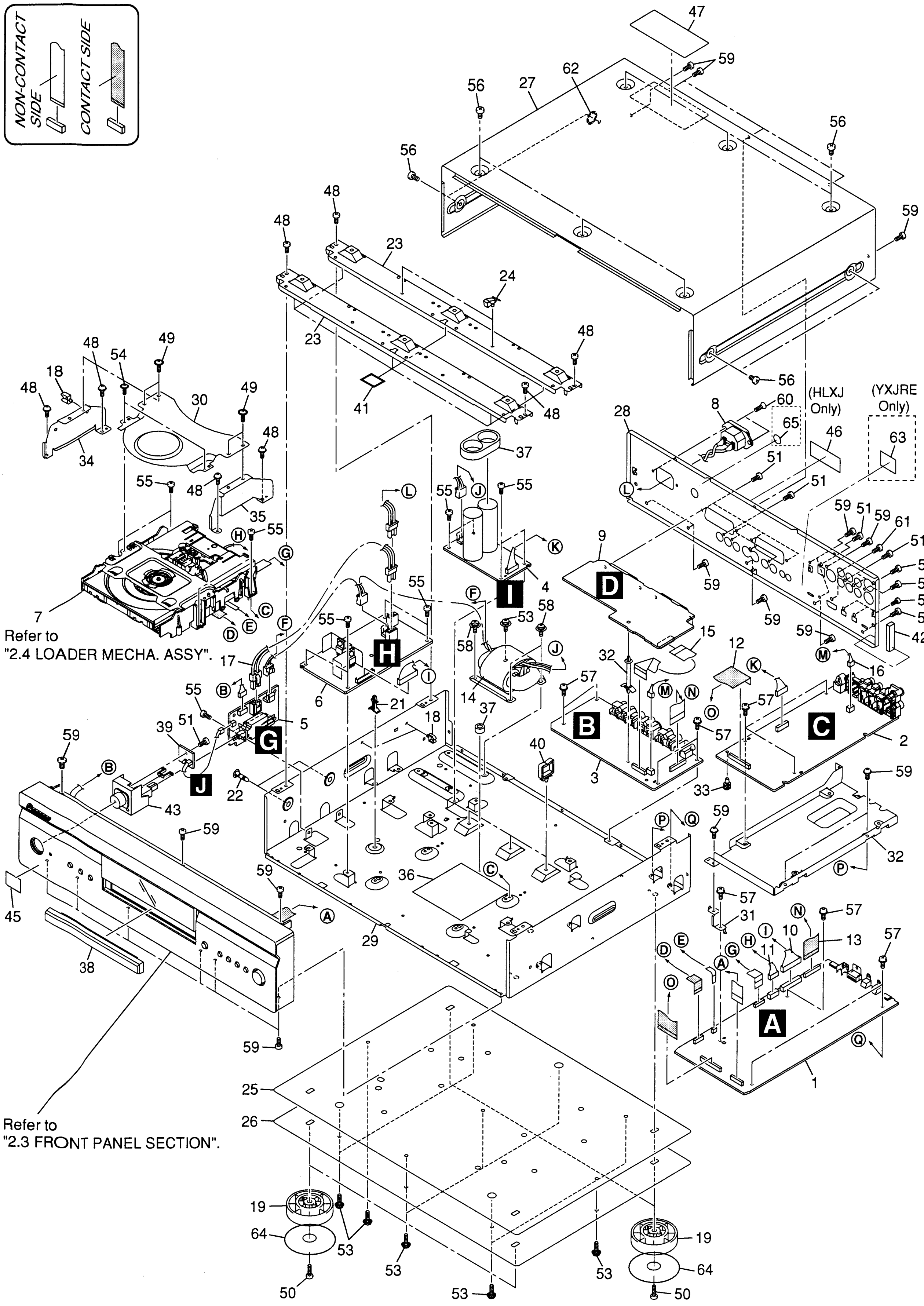
Mark	No.	Description	Part No.
	11	Operating Instructions	See Contrast table (2)
	12	Polyethylene Bag	VHL1051
	13	Pad F	VHA1394
	14	Pad R	VHA1395
	15	Packing Case	See Contrast table (2)
	16	Mirror Mat Sheet	AHG7010
	17	Remote Card	See Contrast table (2)

(2) CONTRAST TABLE

DV-989AVi-S/WYXJ, DV-989AVi-S/YXJRE, DV-989-AVi-G/HLXJ and DV-989AVi-S/WPWXJ are constructed the same except for the following :

Mark	No.	Symbol and Description	DV-989AVi-S /WYXJ	DV-989AVi-S /YXJRE	DV-989AVi-G /HLXJ	DV-989AVi-S /WPWXJ
⚠	1	Power Cable	ADG7062	ADG7062	ADG1154	ADG7099
NSP	2	Warranty Card	ARY7065	ARY7065	Not used	Not used
NSP	6	Dry Cell Battery	VEM1021	VEM1021	VEM1031	VEM1031
	7	Remote Control	VXX2894	VXX2894	VXX2896	VXX2894
	8	Battery Cover	VNK4936	VNK4936	VNK4422	VNK4936
	9	Operating Instructions (English, Spanish)	VRD1205	Not used	Not used	Not used
	9	Operating Instructions (English)	Not used	Not used	VRB1402	VRB1402
	9	Operating Instructions (Russia)	Not used	VRC1296	Not used	Not used
	10	Operating Instructions (French,German)	VRD1206	Not used	Not used	Not used
	10	Operating Instructions (Chinese)	Not used	Not used	VRC1290	Not used
	11	Operating Instructions (Italian,Dutch)	VRD1207	Not used	Not used	Not used
	15	Packing Case	VHG2644	VHG2644	VHG2659	VHG2690
	17	Remote Card (Russia)	Not used	Not used	ARW7322	Not used

2.2 EXTERIOR SECTION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CONTACT SIDE
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(HLXJ Only)
(YXJRE Only)
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Refer to
"2.4 LOADER MECHA. ASSY".

Refer to
"2.3 FRONT PANEL SECTION".

EXTERIOR SECTION parts List

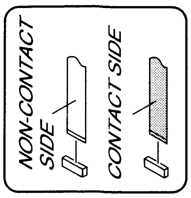
Mark	No.	Description	Part No.
	1	DVDM Assy	VWS1601
	2	AJKB Assy	See Contrast table (2)
	3	VJKB Assy	See Contrast table (2)
	4	PS Assy	VWV2153
	5	MSWB Assy	VWG2548
⚠	6	POWER SUPPLY Unit	VWR1397
NSP	7	LOADER MECHA. Assy	VWT1218
⚠	8	AC Inlet Assy	See Contrast table (2)
	9	SCRB Assy	See Contrast table (2)
	10	Connector Assy(13P)	VKP2378
	11	Connector Assy	PG05KK-E30
	12	FFC (31P, AVKB)	VDA2102
	13	FFC (23P, VJKB)	VDA1972
⚠	14	Power Transformer	VTT1169
	15	FFC (19P, SCRB)	See Contrast table (2)
	16	Connector Assy(3P)	See Contrast table (2)
⚠	17	Housing Assy (2P)	VKP2379
	18	Mini Clamp	AEC7373
	19	Insulator	See Contrast table (2)
	20	• • • •	
	21	PCB Support	VEC2184
NSP	22	PCB Holder	PNW2029
NSP	23	Beam 989	VNE2408
	24	Mini Clamp 2	AEC7507
NSP	25	Bottom Plate	VNA2836
NSP	26	Bottom Plate 989B	VNA2852
	27	Bonnet	See Contrast table (2)
	28	Rear Panel	See Contrast table (2)
NSP	29	Chassis 989	See Contrast table (2)
NSP	30	Mechanism Cover	VNE2410
NSP	31	PCB Angle	VNE2409
	32	PCB Holder AJ	VNE2330
	33	Card Spacer	AEC7214
NSP	34	MECHA Angle L	VNE2411
NSP	35	MECHA Angle R	VNE2412
	36	Protection Barrier	VEC2485
NSP	37	Spacer	AEB7092
	38	Tray Panel	See Contrast table (2)
	39	PLED Assy	VWG2557
	40	Wire Saddle	VEC2310
	41	Beam Spacer 989	VEC2499
	42	Gasket 3*5*80	VEC2501
	43	Power Button Assy	See Contrast table (2)
	44	• • • •	
NSP	45	Energy Star Label	See Contrast table (2)
NSP	46	ID Label Assy	VXW1004
	47	Laser Caution Label	VRW2257
	48	Screw 3x6 B T (FE)	ABA1192
	49	Screw	IBZ30P080FTC
	50	Screw	BBZ30P100FCC
	50	Screw (HLXJ Only))	BSZ40P200FCC
	51	Screw	PPZ30P080FCC
	52	Screw	PCZ26P060FCC
	53	Screw (3x9 BT)	ABA7101
	54	Screw	VBA1044
	55	Screw	BBZ30P080FCC
	56	Screw	BCZ40P060FNI
	57	Screw (3x8 BT)	ABA7017
	58	Screw	ABA1200
	59	Screw	BBT30P100FCC
	60	Screw	CBZ30P080FCC
	61	Screw	PCZ30P060FCC
	62	Toothed Lock Washers	WH40FNI
	63	Region Label (YXJRE Only)	VRW2259
	64	Cushion	See Contrast table (2)
NSP	65	SISIR Label (HLXJ Only)	VRW2245

(2) CONTRAST TABLE

DV-989AVi-S/WYXJ, DV-989AVi-S/YXJRE, DV-989-AVi-G/HLXJ and DV-989AVi-S/WPWXJ are constructed the same except for the following :

Mark	No.	Symbol and Description	DV-989AVi-S /WYXJ5	DV-989AVi-S /YXJRE5	DV-989AVi-G /HLXJ	DV-989AVi-S /WPWXJ
	2	AJKB Assy	VWV2149	VWV2149	VWV2148	VWV2148
	3	VJKB Assy	VWV2152	VWV2152	VWV2150	VWV2151
⚠	8	AC Inlet Assy	VKP2364	VKP2364	VKP2367	VKP2367
	9	SCRB Assy	VWV1992	VWV1992	Not used	Not used
	15	FFC (19P, SCRB)	VDA1973	VDA1973	Not used	Not used
	16	Connector Assy(3P)	PG03KK-E15	PG03KK-E15	Not used	Not used
	19	Insulator	PNW2766	PNW2766	ANL7028	PNW2766
	27	Bonnet	VXX3077	VXX3077	VXX3078	VXX3077
	28	Rear Panel	VNA2837	VNA2837	VNA2841	VNA2873
NSP	29	Chassis 989	VNA2843	VNA2843	VNA2863	VNA2843
	38	Tray Panel	VNK5850	VNK5850	VNK5849	VNK5850
	43	Power Button Assy	VXA2724	VXA2724	VXA2725	VXA2724
NSP	45	Energy Star Label	Not used	Not used	Not used	AAX8022
	64	Cushion	PNM1339	PNM1339	AEC7224	PNM1339

2.3 FRONT PANEL SECTION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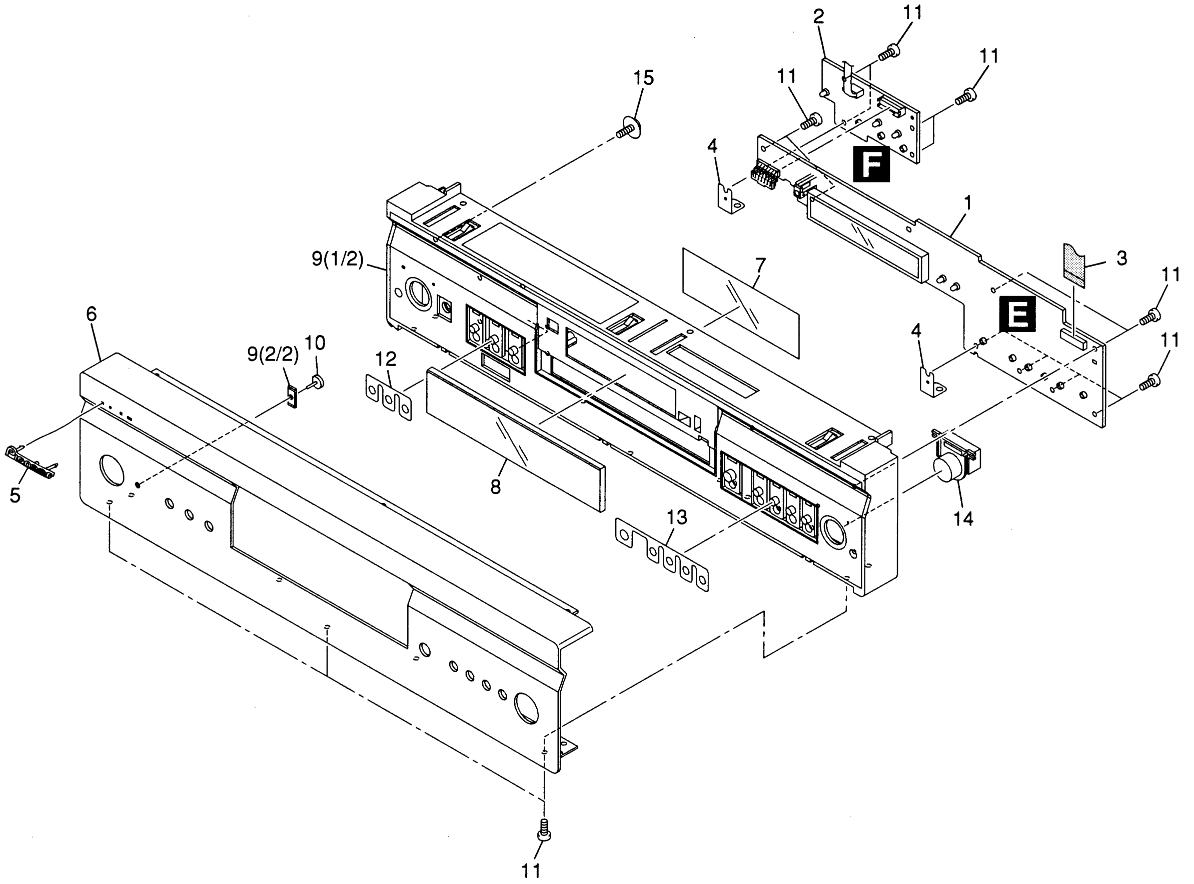
CONTACT SIDE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FRONT PANEL SECTION parts List

Mark	No.	Description	Part No.
	1	FLKY Assy	See Contrast table (2)
	2	KEYB Assy	VWG2558
	3	FFC (17P, FLKB)	VDA2089
	4	Earth Plate S	VNF1131
	5	Pioneer Name Plate	See Contrast table (2)
	6	Aluminum Panel	See Contrast table (2)
	7	FL Filter	VEC2482
	8	D Window	VEC2492
	9	Panel Base Assy	See Contrast table (2)

Mark	No.	Description	Part No.
NSP	10	LED Lens	VNK5073
	11	Screw	PPZ30P080FCC
	12	Button Sheet L	VED1014
	13	Button Sheet R	VED1015
	14	Standby BTN V1 (P)	See Contrast table (2)
	15	Screw	ABA7110

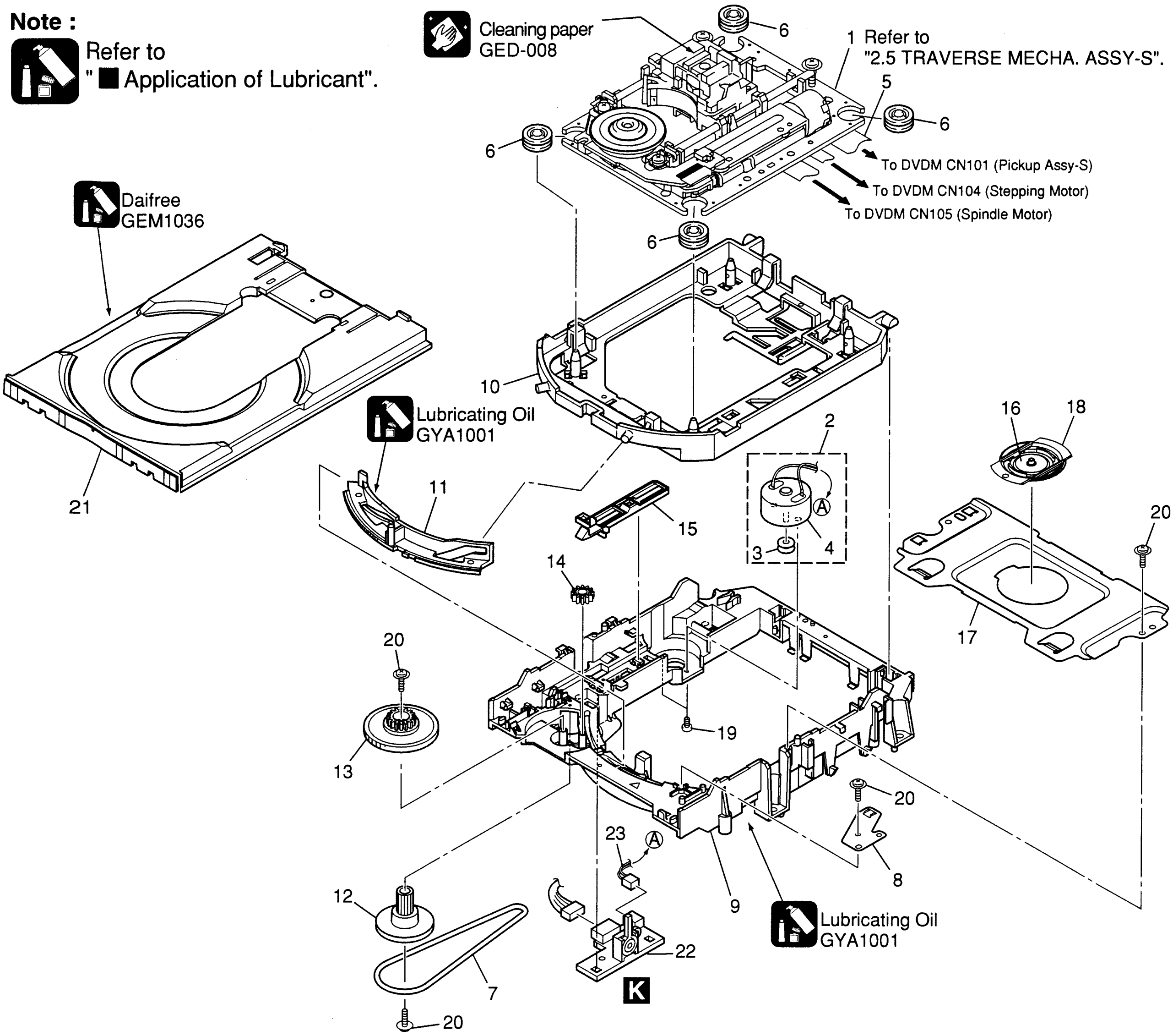
(2) CONTRAST TABLE

DV-989AVi-S/WYXJ, DV-989AVi-S/YXJRE, DV-989-AVi-G/HLXJ and DV-989AVi-S/WPWXJ are constructed the same except for the following :

Mark	No.	Symbol and Description	DV-989AVi-S /WYXJ	DV-989AVi-S /YXJRE	DV-989AVi-G /HLXJ	DV-989AVi-S /WPWXJ
	1	FLKY Assy	VWG2552	VWG2552	VWG2554	VWG2554
	5	Pioneer Name Plate	VAM1124	VAM1124	PAN1377	VAM1124
	6	Aluminum Panel	VAH1430	VAH1430	VAH1434	VAH1430
	9	Panel Base Assy	VXA2721	VXA2721	VXA2722	VXA2721
	14	Standby BTN V1 (P)	XAD3191	XAD3191	XAD3186	XAD3191

2.4 LOADER MECHA. ASSY

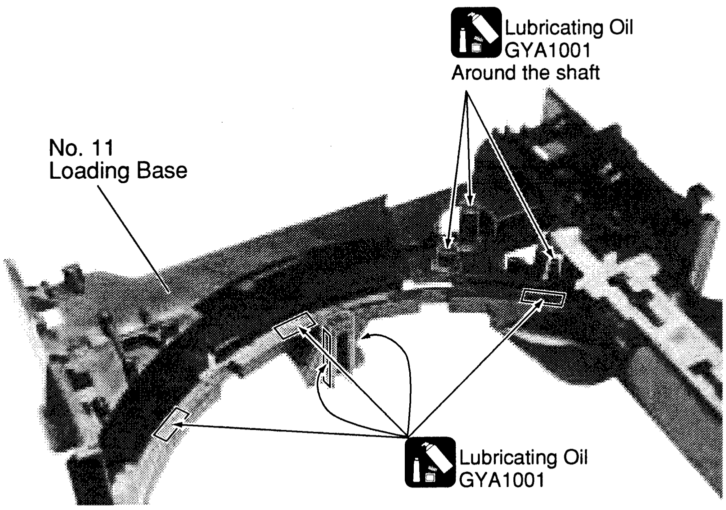
Note :
Refer to
" ■ Application of Lubricant".

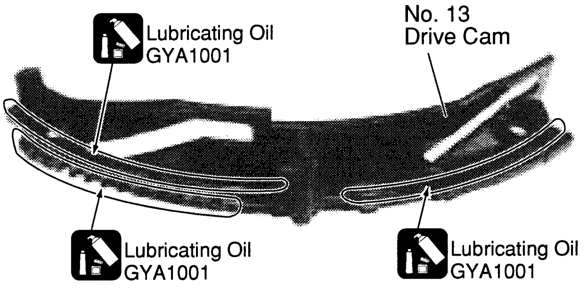

Cleaning paper
GED-008
6
1 Refer to
"2.5 TRAVERSE MECHA. ASSY-S".
5
6
6
To DVDM CN101 (Pickup Assy-S)
To DVDM CN104 (Stepping Motor)
To DVDM CN105 (Spindle Motor)
Daifree
GEM1036
6
10
Lubricating Oil
GYA1001
21
11
2
A
3
4
15
16
18
20
17
14
20
13
19
20
8
23
A
9
Lubricating Oil
GYA1001
12
22
K
7
20

LOADER MECHA. ASSY parts List

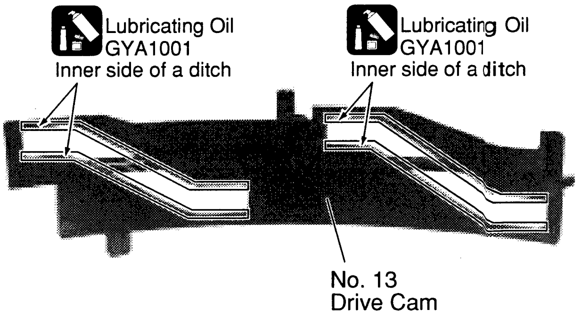
Mark	No.	Description	Part No.
	1	Traverse Mecha. Assy-S	VXX2909
	2	Loading Motor Assy	VXX2912
	3	Motor Pulley	PNW1634
	4	Motor	VXM1107
	5	Flexible Cable (24P)	VDA1947
	6	Floating Rubber	VEB1351
	7	Belt	VEB1358
	8	Stabilizer	VNE2253
	9	Loading Base	VNL1917
	10	Float Base DVD	VNL1918
	11	Drive Cam	VNL1919
	12	Gear Pulley	VNL1921
	13	Loading Gear	VNL1922
	14	Drive Gear	VNL1923
	15	SW Lever	VNL1925
	16	Clamper Plate	VNE2342
	17	Bridge	VNE2343
	18	Clamper	VNL1924
	19	Screw	JGZ17P028FMC
	20	Screw	VBA1094
	21	Tray	VNL1920
NSP	22	LOAB Assy	VWG2426
	23	Connector Assy (2P)	VKP2253

Application of Lubricant

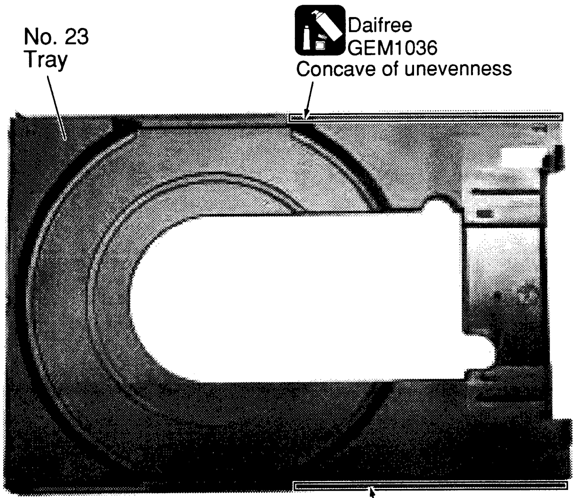

Lubricating Oil
GYA1001
Around the shaft
No. 11
Loading Base
Lubricating Oil
GYA1001


Lubricating Oil
GYA1001
No. 13
Drive Cam
Lubricating Oil
GYA1001
Lubricating Oil
GYA1001

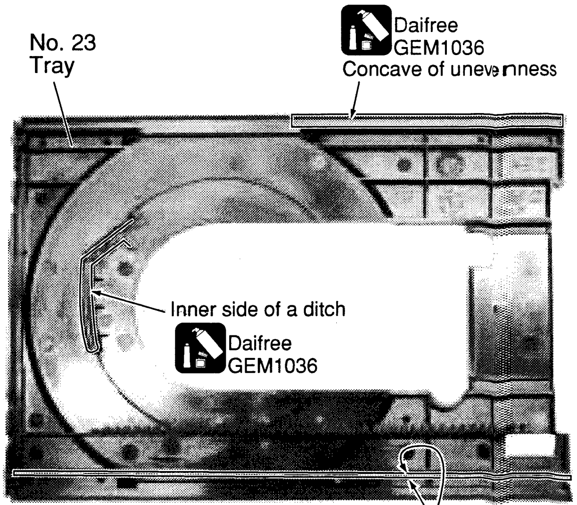
- Front View


Lubricating Oil
GYA1001
Inner side of a ditch
Lubricating Oil
GYA1001
Inner side of a ditch
No. 13
Drive Cam

- Rear View

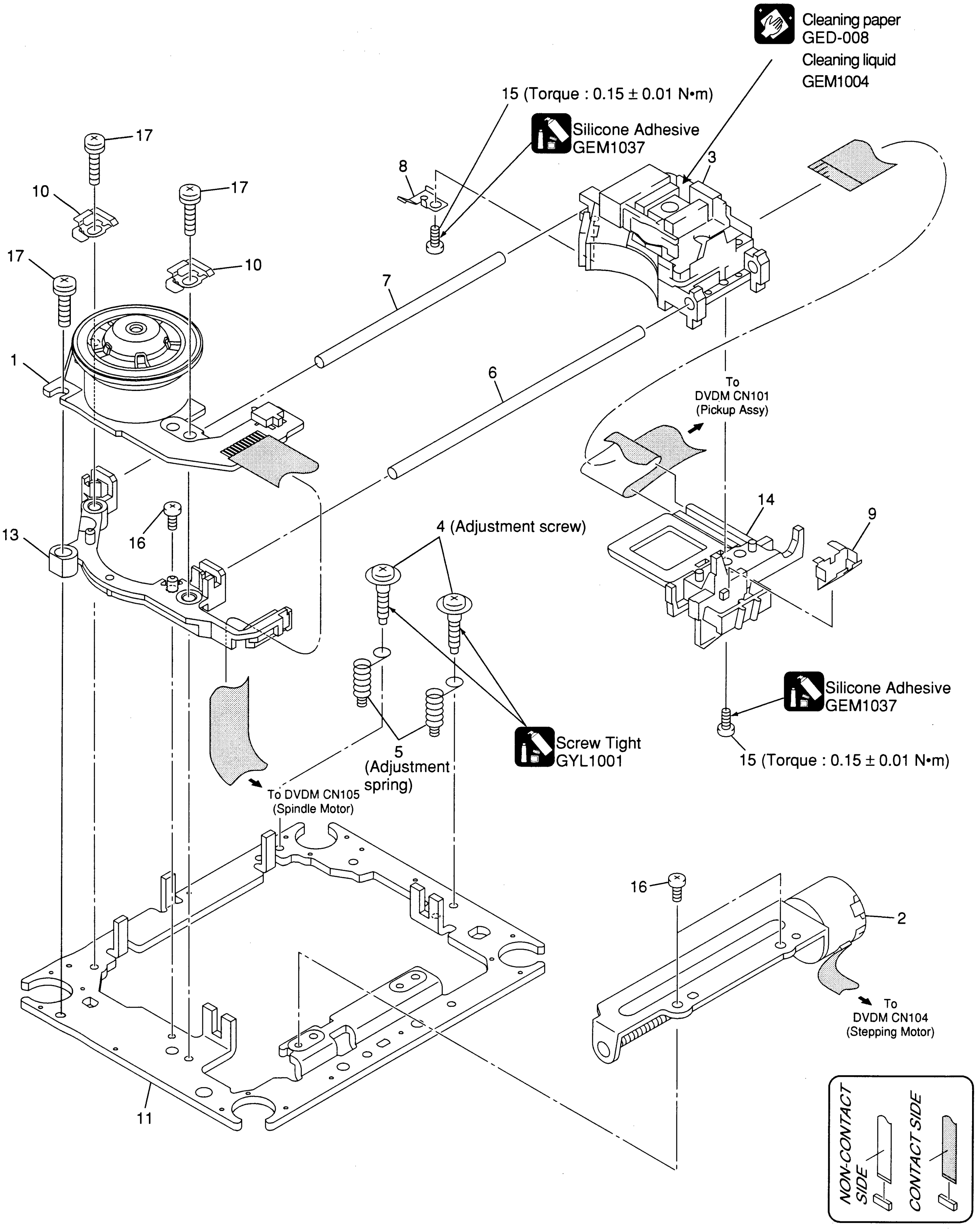

No. 23
Tray
Daifree
GEM1036
Concave of unevenness
Concave of unevenness
Daifree
GEM1036

- Top View


No. 23
Tray
Daifree
GEM1036
Concave of unevenness
Inner side of a ditch
Daifree
GEM1036
Side of the rib
Daifree
GEM1036

- Bottom View

2.5 TRAVERSE MECHA. ASSY-S

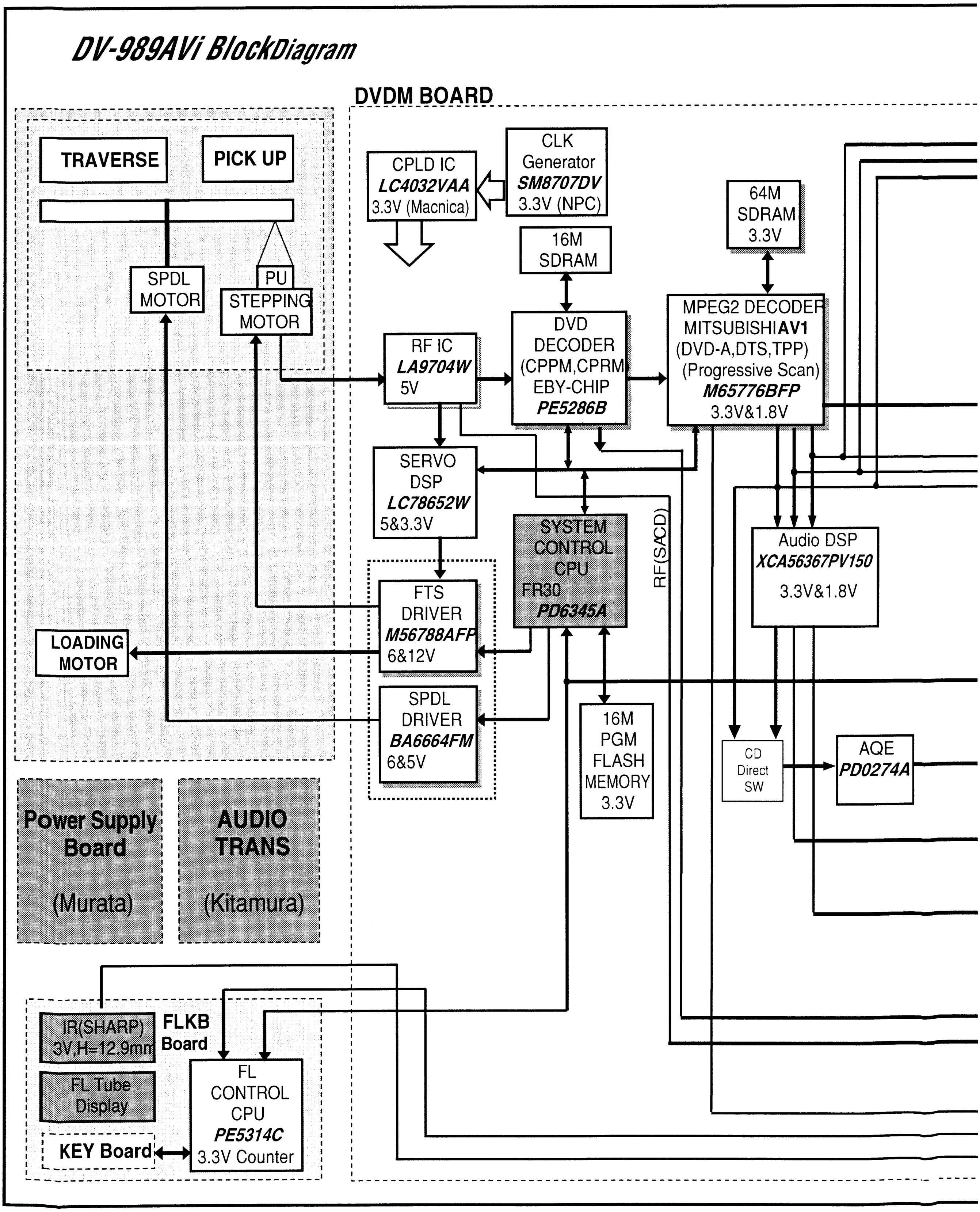

Cleaning paper
GED-008
Cleaning liquid
GEM1004
15 (Torque : 0.15 ± 0.01 N•m)
Silicone Adhesive
GEM1037
17
10
17
17
10
8
3
7
1
6
To
DVDM CN101
(Pickup Assy)
14
9
13
16
4 (Adjustment screw)
Silicone Adhesive
GEM1037
15 (Torque : 0.15 ± 0.01 N•m)
Screw Tight
GYL1001
5
(Adjustment
spring)
To DVDM CN105
(Spindle Motor)
16
2
To
DVDM CN104
(Stepping Motor)
11
NON-CONTACT SIDE
CONTACT SIDE

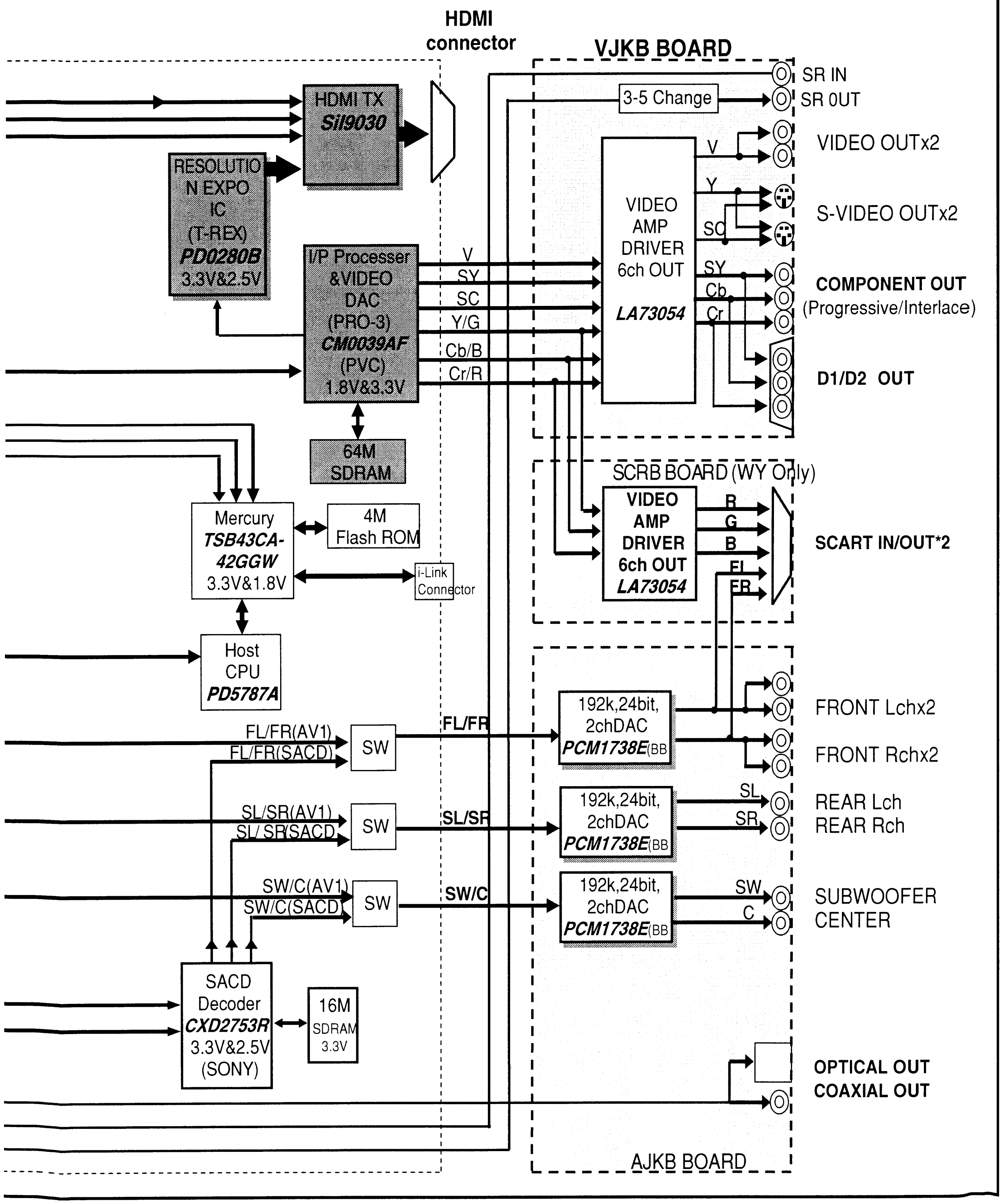
TRAVERSE MECHA. ASSY-S parts List

Mark	No.	Description	Part No.
	1	Spindle Motor	VXM1099
	2	Stepping Motor	VXM1101
	3	Pickup Assy-S	OXX8005
	4	Skew Screw	VBA1080
	5	Skew Spring	VBH1335
	6	Guide Bar	VLL1514
	7	Sub Guide Bar	VLL1515
	8	Leaf Spring	VNC1023
	9	Joint Spring	VNC1019
	10	Support Spring	VNC1020
NSP	11	Mecha.Chassis	VNE2248
	12	Damper Sheet	VEB1335
	13	Spacer	VNL1913
	14	Joint 03	VNL1949
	15	Tapping Screw	OBA8021
	16	Screw	BBZ20P050FZK
	17	Screw	PMA26P100FMC

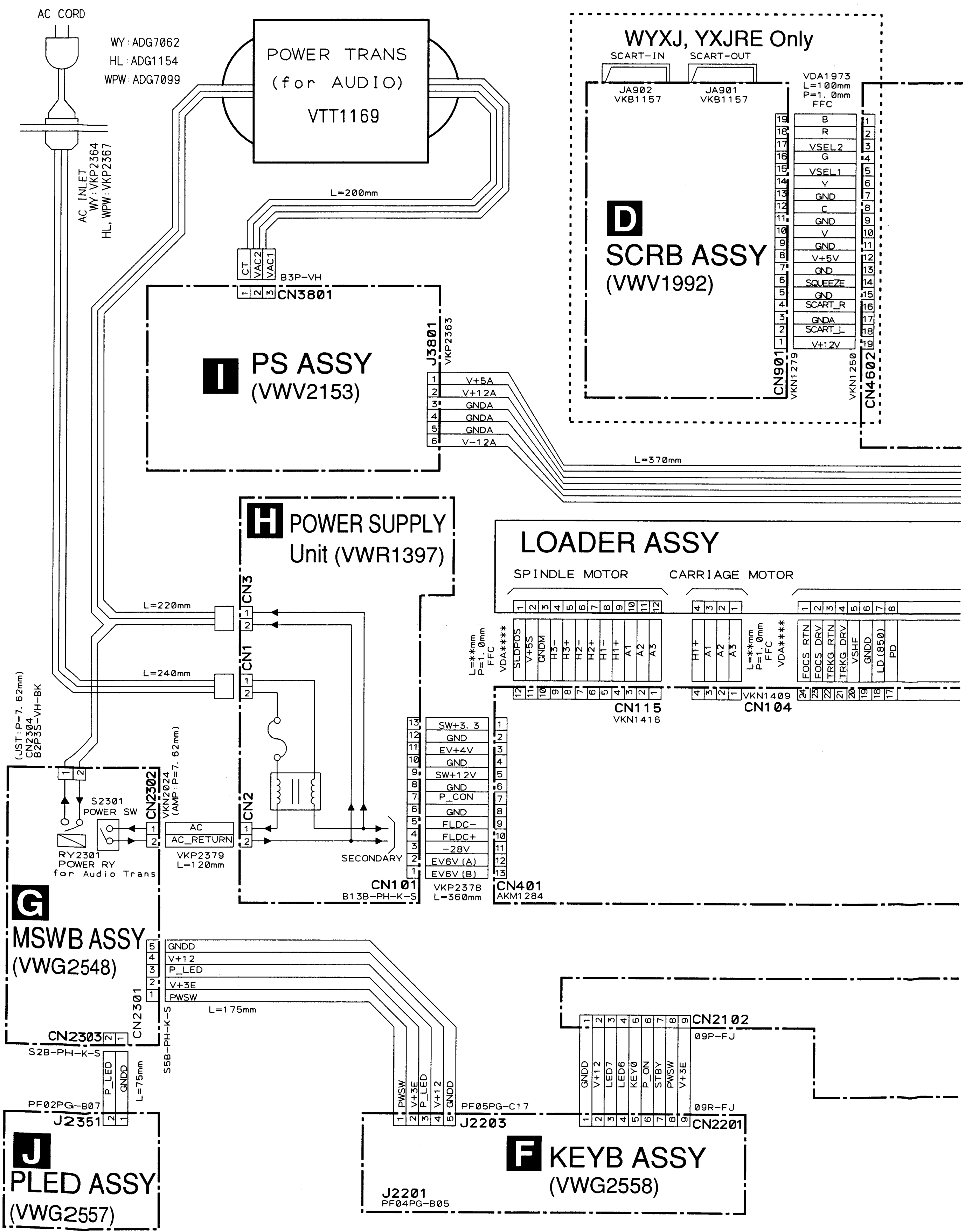
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

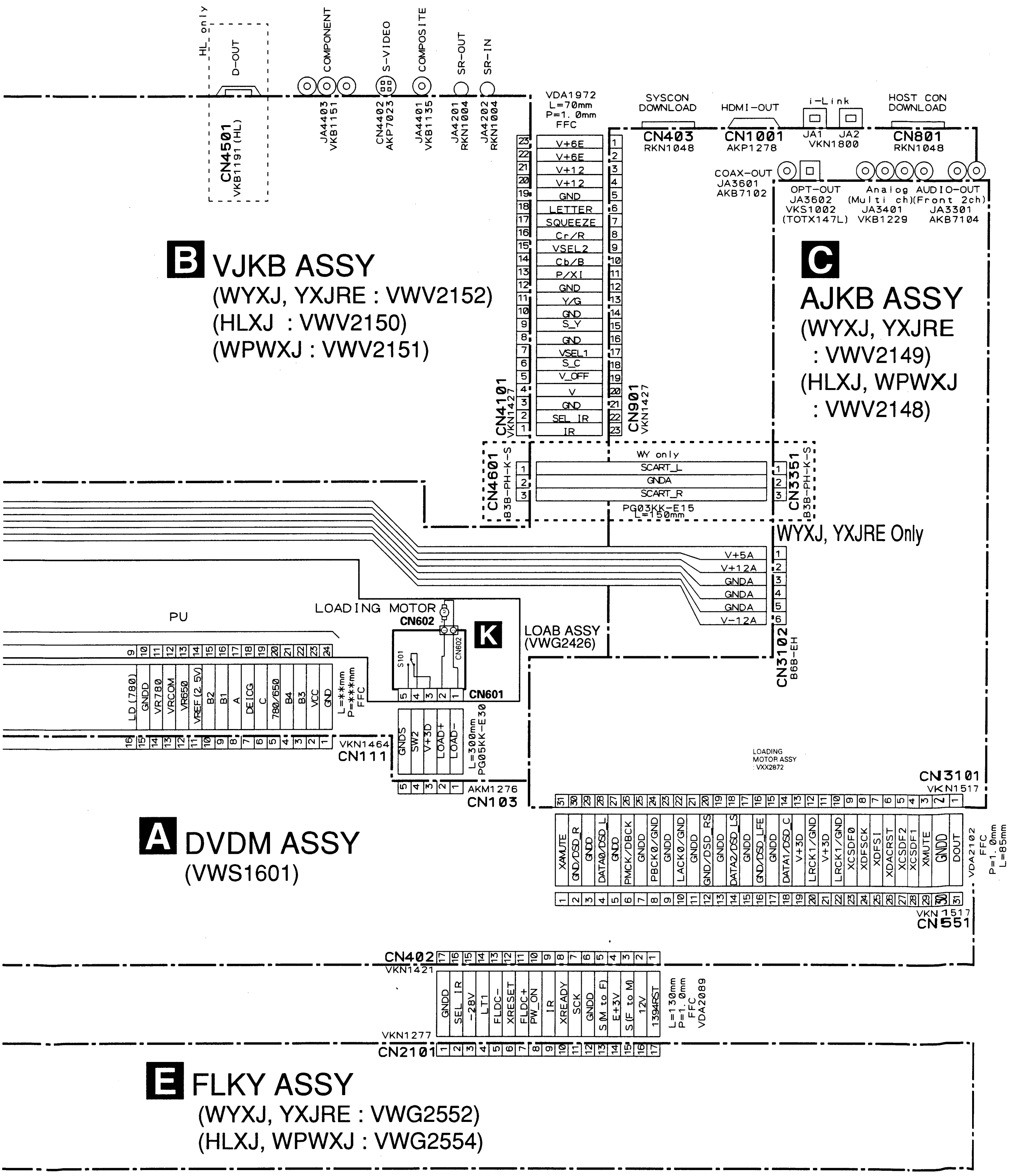
3.1 OVERAL BLOCK DIAGRAM


DV-989AVi BlockDiagram
DVDM BOARD
TRAVERSE
PICK UP
SPDL MOTOR
PU STEPPING MOTOR
LOADING MOTOR
CPLD IC LC4032VAA 3.3V (Macnica)
CLK Generator SM8707DV 3.3V (NPC)
16M SDRAM
64M SDRAM 3.3V
RF IC LA9704W 5V
DVD DECODER (CPPM,CPRM) EBY-CHIP PE5286B
MPEG2 DECODER MITSUBISHI AV1 (DVD-A,DTS,TPP) (Progressive Scan) M65776BFP 3.3V&1.8V
SERVO DSP LC78652W 5&3.3V
SYSTEM CONTROL CPU FR30 PD6345A
RF(SACD)
Audio DSP XCA56367PV150 3.3V&1.8V
FTS DRIVER M56788AFP 6&12V
SPDL DRIVER BA6664FM 6&5V
16M PGM FLASH MEMORY 3.3V
CD Direct SW
AQE PD0274A
Power Supply Board (Murata)
AUDIO TRANS (Kitamura)
IR(SHARP) 3V,H=12.9mm
FLKB Board
FL Tube Display
KEY Board
FL CONTROL CPU PE5314C 3.3V Counter


HDMI connector
VJKB BOARD
HDMI TX
Sil9030
RESOLUTION EXPO IC
(T-REX)
PD0280B
3.3V&2.5V
I/P Processer
&VIDEO
DAC
(PRO-3)
CM0039AF
(PVC)
1.8V&3.3V
V
SY
SC
Y/G
Cb/B
Cr/R
64M
SDRAM
SR IN
3-5 Change
SR OUT
VIDEO
AMP
DRIVER
6ch OUT
LA73054
V
VIDEO OUTx2
Y
SC
S-VIDEO OUTx2
SY
Cb
Cr
COMPONENT OUT
(Progressive/Interlace)
D1/D2 OUT
SCRB BOARD (WY Only)
VIDEO
AMP
DRIVER
6ch OUT
LA73054
R
G
B
FL
FR
SCART IN/OUT*2
Mercury
TSB43CA-
42GGW
3.3V&1.8V
4M
Flash ROM
i-Link
Connector
Host
CPU
PD5787A
FL/FR(AV1)
FL/FR(SACD)
SW
FL/FR
192k,24bit,
2chDAC
PCM1738E(BB)
FRONT Lchx2
FRONT Rchx2
SL/SR(AV1)
SL/SR(SACD)
SW
SL/SR
192k,24bit,
2chDAC
PCM1738E(BB)
SL
SR
REAR Lch
REAR Rch
SW/C(AV1)
SW/C(SACD)
SW
SW/C
192k,24bit,
2chDAC
PCM1738E(BB)
SW
C
SUBWOOFER
CENTER
SACD
Decoder
CXD2753R
3.3V&2.5V
(SONY)
16M
SDRAM
3.3V
OPTICAL OUT
COAXIAL OUT
AJKB BOARD

3.2 LOAB ASSY and OVERALL WIRING DIAGRAM

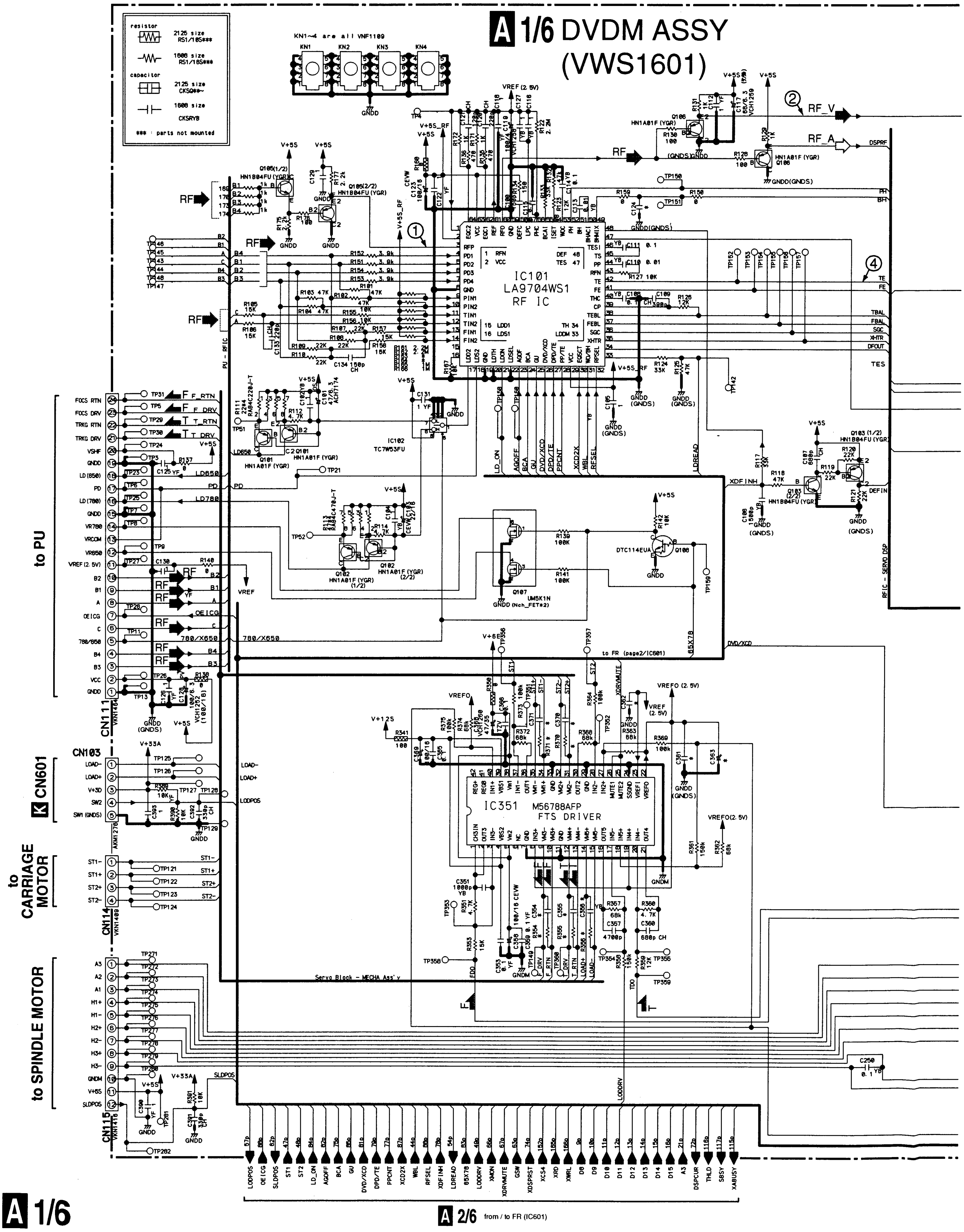

AC CORD
WY: ADG7062
HL: ADG1154
WPW: ADG7099
AC INLET
WY: VKP2364
HL, WPW: VKP2367
POWER TRANS
(for AUDIO)
VTT1169
L=200mm
CT
VAC2
VAC1
B3P-VH
CN3801
I
PS ASSY
(VWV2153)
J3801
VKP2363
V+5A
V+12A
GNDA
GNDA
GNDA
V-12A
L=370mm
WYXJ, YXJRE Only
SCART-IN
SCART-OUT
JA902
VKB1157
JA901
VKB1157
VDA1973
L=100mm
P=1.0mm
FFC
B
R
VSEL2
G
VSEL1
Y
GND
C
GND
V
GND
V+5V
GND
SQUEEZE
GND
SCART_R
GNDA
SCART_L
V+12V
D
SCRB ASSY
(VWV1992)
CN901
VKN1279
VKN1250
CN4602
H
POWER SUPPLY
Unit (VWR1397)
CN3
CN1
CN2
L=220mm
L=240mm
SECONDARY
LOADER ASSY
SPINDLE MOTOR
CARRIAGE MOTOR
L=**mm
P=1.0mm
FFC
VDA****
SLDPOS
V+5S
GNDM
H3-
H3+
H2-
H2+
H1-
H1+
A1
A2
A3
CN115
VKN1416
H1+
A1
A2
A3
VKN1409
CN104
FOCS RTN
FOCS DRV
TRKG RTN
TRKG DRV
VSHF
GNDD
LD(850)
PD
SW+3.3
GND
EV+4V
GND
SW+12V
GND
P_CON
GND
FLDC-
FLDC+
-28V
EV6V(A)
EV6V(B)
CN101
B13B-PH-K-S
VKP2378
L=360mm
CN401
AKM1284
(JST:P=7.62mm)
CN2304
B2P3S-VH-BK
CN2302
VKN2024
(AMP:P=7.62mm)
S2301
POWER SW
RY2301
POWER RY
for Audio Trans
AC
AC_RETURN
VKP2379
L=120mm
G
MSWB ASSY
(VWG2548)
GNDD
V+12
P_LED
V+3E
PWSW
L=175mm
CN2301
S5B-PH-K-S
CN2303
S2B-PH-K-S
P_LED
GNDD
L=75mm
PF02PG-B07
J2351
J
PLED ASSY
(VWG2557)
PWSW
V+3E
P_LED
V+12
GNDD
PF05PG-C17
J2203
GNDD
V+12
LED7
LED6
KEY0
P_ON
STBY
PWSW
V+3E
CN2102
09P-FJ
09R-FJ
CN2201
F
KEYB ASSY
(VWG2558)
J2201
PF04PG-B05

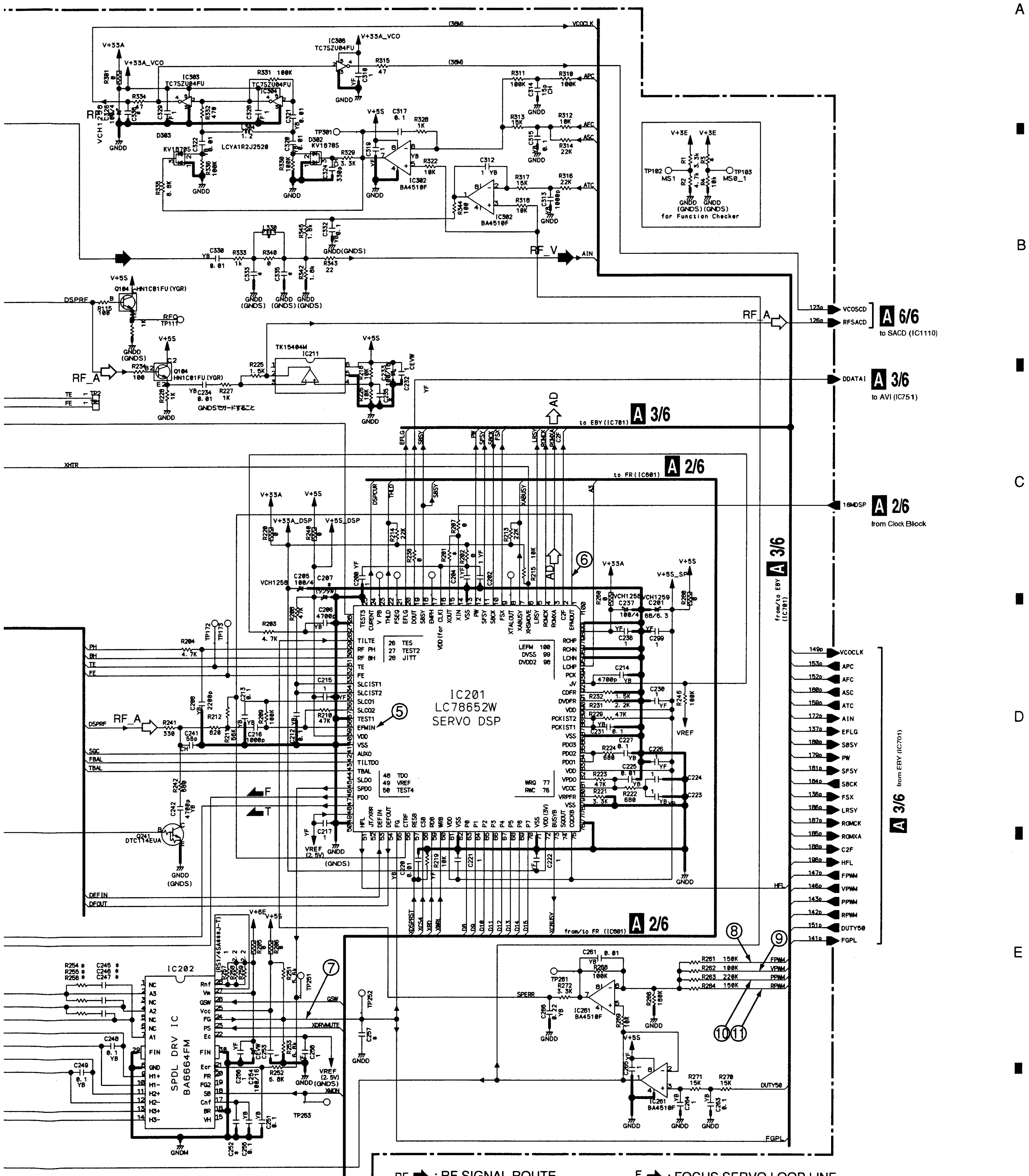

HL_only
D-OUT
CN4501
VKB1191(HL)
COMPONENT
JA4403
VKB1151
S-VIDEO
CN4402
AKP7023
COMPOSITE
JA4401
VKB1135
SR-OUT
JA4201
RKN1004
SR-IN
JA4202
RKN1004
VDA1972
L=70mm
P=1.0mm
FFC
V+6E
V+6E
V+12
V+12
GND
LETTER
SQUEEZE
Cr/R
VSEL2
Cb/B
P/XI
GND
Y/G
GND
S_Y
GND
VSEL1
S_C
V_OFF
V
GND
SEL_IR
IR
CN4101
VKN1427
CN901
VKN1427
SYSCON DOWNLOAD
CN403
RKN1048
HDMI-OUT
CN1001
AKP1278
i-Link
JA1 JA2
VKN1800
HOST CON DOWNLOAD
CN801
RKN1048
COAX-OUT
JA3601
AKB7102
OPT-OUT
JA3602
VKS1002
(TOTX147L)
Analog AUDIO-OUT
(Multi ch)
JA3401
VKB1229
(Front 2ch)
JA3301
AKB7104
B VJKB ASSY
(WYXJ, YXJRE : VWV2152)
(HLXJ : VWV2150)
(WPWXJ : VWV2151)
C AJKB ASSY
(WYXJ, YXJRE : VWV2149)
(HLXJ, WPWXJ : VWV2148)
CN4601
B3B-PH-K-S
WY only
SCART_L
GNDA
SCART_R
PG03KK-E15
L=150mm
CN3351
B3B-PH-K-S
WYXJ, YXJRE Only
V+5A
V+12A
GNDA
GNDA
GNDA
V-12A
CN3102
B6B-EH
PU
LOADING MOTOR
CN602
K
S101
CN601
LOAB ASSY
(VWG2426)
LD(780)
GNDD
VR780
VRCOM
VR650
VREF(2.5V)
B2
B1
A
DEICG
C
780/650
B4
B3
VCC
GND
L=**mm
P=***mm
FFC
VKN1464
CN111
GNDS
SW2
V+3D
LOAD+
LOAD-
L=300mm
PG05KK-E30
AKM1276
CN103
LOADING MOTOR ASSY
VXX2872
CN3101
VKN1517
A DVDM ASSY
(VWS1601)
XAMUTE
GND/DSD_R
GNDD
DATA0/DSD_L
GNDD
PMCK/DBCK
GNDD
PBCK0/GND
GNDD
LACK0/GND
GNDD
GND/DSD_RS
GNDD
DATA2/DSD_LS
GNDD
GND/DSD_LFE
GNDD
DATA1/DSD_C
V+3D
LRCK1/GND
V+3D
LRCK1/GND
XCSDF0
XDFSCK
XDFSI
XDACRST
XCSDF2
XCSDF1
XMUTE
GNDD
DOUT
VDA2102
FFC
P=1.0mm
L=85mm
VKN1517
CN551
CN402
VKN1421
GNDD
SEL_IR
-28V
LT1
FLDC-
XRESET
FLDC+
PW_ON
IR
XREADY
SCK
GNDD
S(M to F)
E+3V
S(F to M)
12V
1394RST
L=130mm
P=1.0mm
FFC
VDA2089
VKN1277
CN2101
E FLKY ASSY
(WYXJ, YXJRE : VWG2552)
(HLXJ, WPWXJ : VWG2554)
A
B
C
D
E

- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- ▭ : The power supply is shown with the marked box.

F

3.3 DVDM ASSY 1/6 [FTS BLOCK]


A 1/6 DVDM ASSY
(VWS1601)
resistor
2125 size RS1/10S###
1608 size RS1/16S###
capacitor
2125 size CKSQ##~
1608 size CKSRYB
### : parts not mounted
KN1~4 are all VNF1109
KN1
KN2
KN3
KN4
GNDD
IC101
LA9704WS1
RF IC
IC102
TC7W53FU
IC351
M56788AFP
FTS DRIVER
Q105(1/2) HN1B04FU(YGR)
Q105(2/2) HN1B04FU (YGR)
Q106 HN1A01F (YGR)
Q101 HN1A01F (YGR)
Q102 HN1A01F (YGR)
Q103 (1/2) HN1B04FU (YGR)
Q103 (2/2) HN1B04FU (YGR)
Q107 UM5K1N GNDD (Nch_FET*2)
Q108 DTC114EUA
VREF (2.5V)
V+5S
V+5S_RF
V+12S
V+33A
VREFO (2.5V)
RF
RF_V
RF_A
DSPRF
①
②
④
PH
BH
TE
FE
TBAL
FBAL
SGC
XHTR
DFOUT
TES
XDFINH
DEFIN
LD_ON
AGOFF
BCA
GU
DVD/XCD
DPD/TE
PPCNT
XCD2X
WBL
RFSEL
LDREAD
65X78
DVD/XCD
to FR (page2/IC601)
RFIC - SERVO DSP
Servo Block - MECHA Ass'y
GNDS
GNDM
to PU
F F_RTN
F F_DRV
T T_RTN
T T_DRV
FOCS RTN
FOCS DRV
TRKG RTN
TRKG DRV
VSHF
GNDD
LD (650)
PD
LD (780)
VR780
VRCOM
VR650
VREF (2.5V)
B2
B1
A
OEICG
C
780/650
B4
B3
VCC
LD650
LD780
780/X650
CN111 VKN1464
CN103
LOAD-
LOAD+
V+3D
SW2
SW1 (GNDS)
LODPOS
K CN601
AKM1278
to CARRIAGE MOTOR
ST1-
ST1+
ST2+
ST2-
CN114 VKN1408
to SPINDLE MOTOR
A3
A2
A1
H1+
H1-
H2+
H2-
H3+
H3-
GNDM
V+5S
SLDPOS
CN115 VKN1416
C250 0.1 YB
LODPOS
OEICG
SLDPOS
ST1
ST2
LD_ON
AGOFF
BCA
GU
DVD/XCD
DPD/TE
PPCNT
XCD2X
WBL
RFSEL
XDFINH
LDREAD
65X78
LOODRV
XMON
XDRVMUTE
GSW
XDSPRST
XCS4
XRD
XWRL
D8
D9
D10
D11
D12
D13
D14
D15
A3
DSPCUR
THLD
S8SY
XABUSY
A 2/6 from / to FR (IC601)


A
B
C
D
E
F
IC201
LC78652W
SERVO DSP
IC202
SPDL DRV IC
BA6664FM
IC211
TK15404M
IC301
BA4510F
IC302
BA4510F
IC303
TC7SZU04FU
IC304
TC7SZU04FU
IC306
TC7SZU04FU
IC261
BA4510F
Q104
HN1C01FU (YGR)
Q241
DTC114EUA
V+33A
V+5S
V+33A_VCO
V+33A_DSP
V+5S_DSP
V+6E
V+3E
VREF
GNDD
(GNDS)
GNDM
RF
RF_V
RF_A
AD
F
T
VCOCLK
APC
AFC
ASC
ATC
AIN
DSPRF
RFO
TP111
TE
FE
XHTR
PH
BH
SGC
FBAL
TBAL
DEFIN
DFOUT
SPERR
FGPL
DUTY50
HFL
FPWM
VPWM
PPWM
RPWM
EFLG
SBSY
PW
SFSY
SBCK
FSX
LRSY
ROMCK
ROMXA
C2F
XDRVMUTE
XMON
GSW
to EBY (IC701) A 3/6
to FR (IC601) A 2/6
from/to FR (IC601) A 2/6
from/to EBY (IC701) A 3/6
VCOSCD
RFSACD
A 6/6
to SACD (IC1110)
DDATAI
A 3/6
to AVI (IC751)
16MDSP
A 2/6
from Clock Block
A 3/6 from EBY (IC701)
TP102 MS1
TP103 MS0_1
for Function Checker
GNDSでガードすること
⑤
⑥
⑦
⑧
⑨
⑩
⑪

RF ➡ : RF SIGNAL ROUTE

RF_V ➡ : RF (VIDEO) SIGNAL ROUTE

RF_A ⇨ : RF (AUDIO) SIGNAL ROUTE

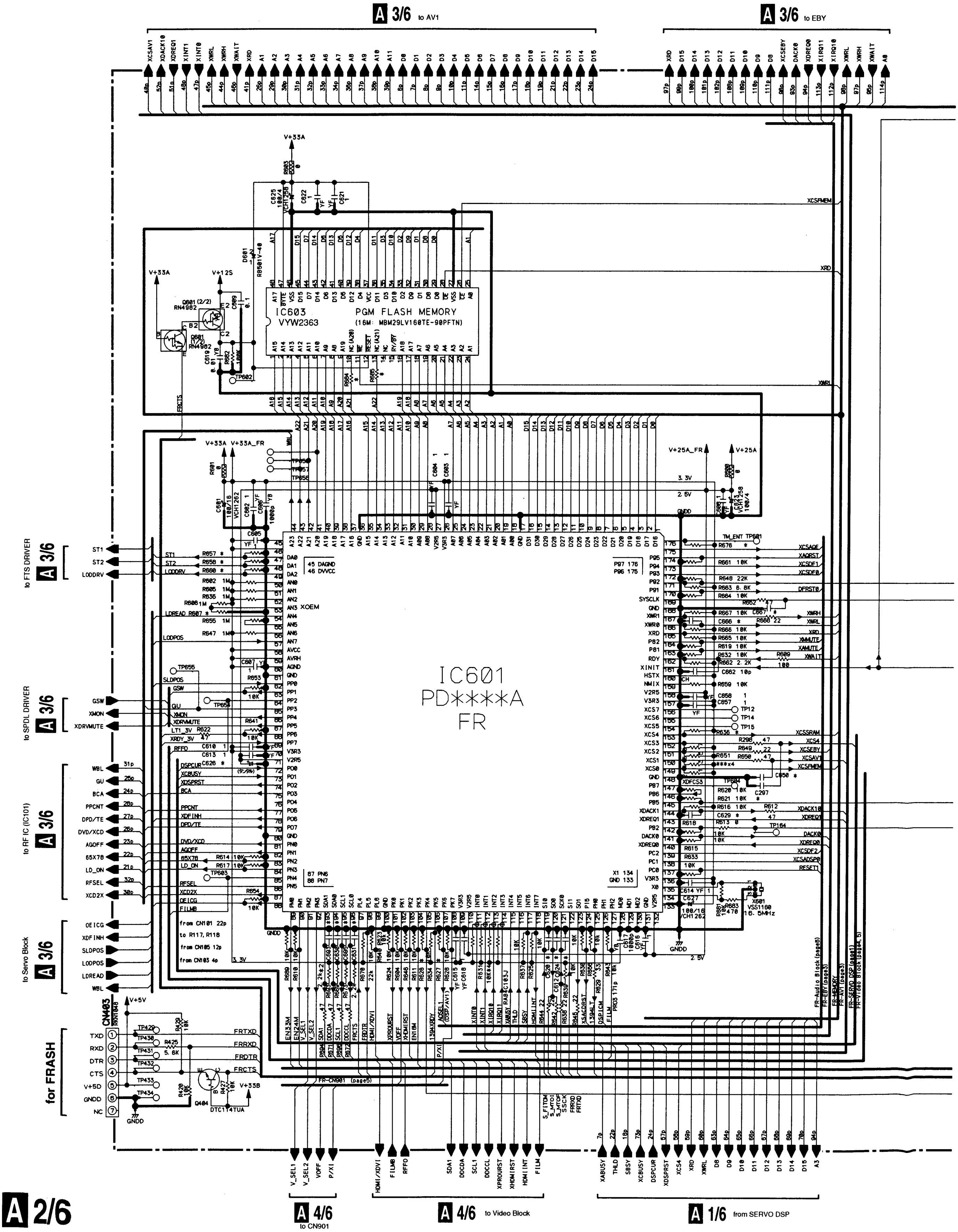
AD ⇨ : AUDIO DATA SIGNAL ROUTE

F ◢ : FOCUS SERVO LOOP LINE

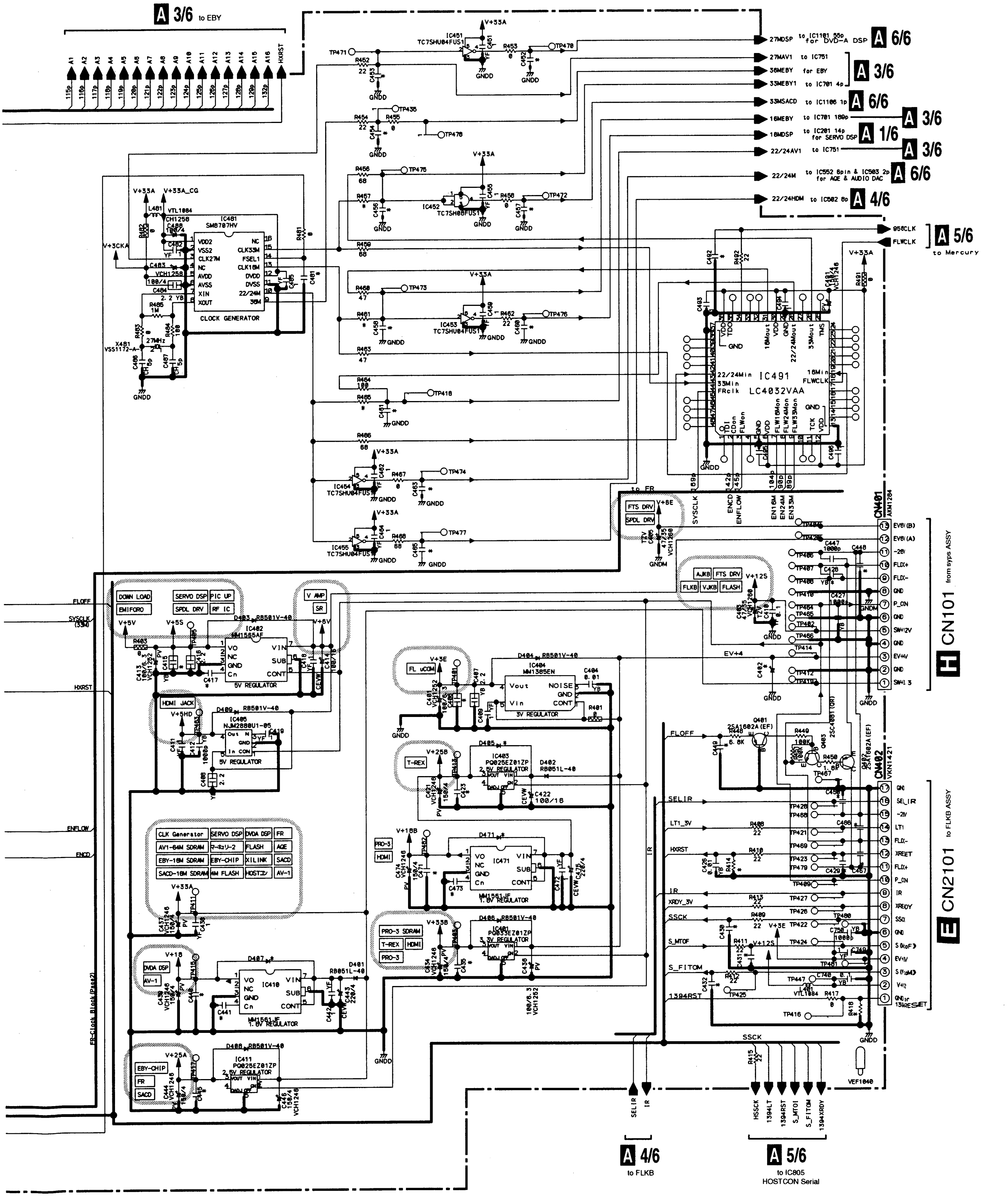
T ◢ : TRACKING SERVO LOOP LINE

S ◢ : STEPPING SERVO LOOP LINE

3.4 DVDM ASSY 2/6 [FR BLOCK]

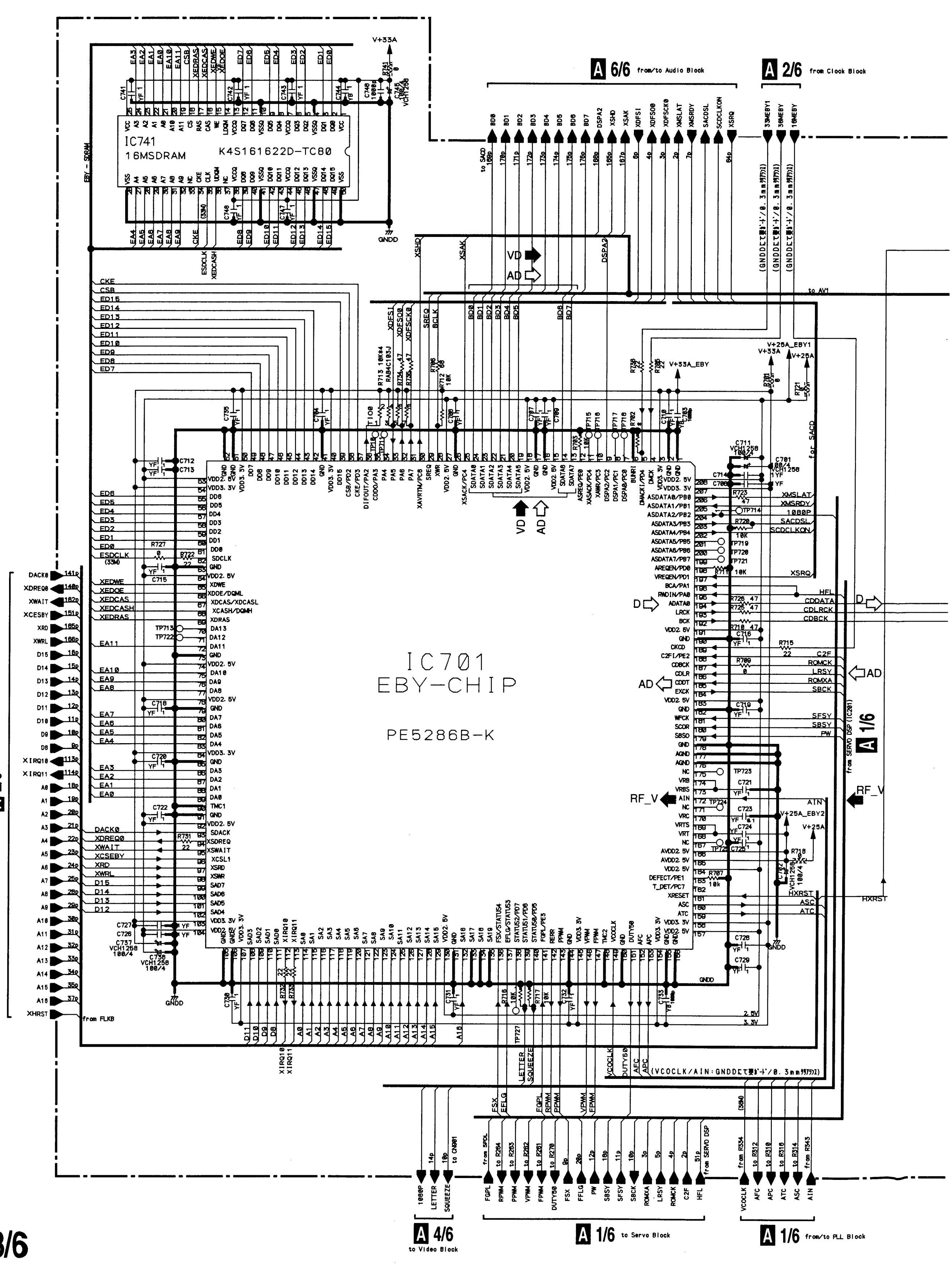

A 3/6 to AV1
A 3/6 to EBY
XCSAV1
XDACK10
XDREQ1
XINT1
XINT0
XWRL
XWRH
XWAIT
XRD
XCSEBY
DACK0
XDREQ0
XIRQ11
XIRQ10
V+33A
V+12S
IC603
VYW2363
PGM FLASH MEMORY
(16M: MBM29LV160TE-90PFTN)
Q601 (2/2) RN4982
Q601 (1/2) RN4982
D601 RB501V-40
TP602
XCSFMEM
FRCTS
V+33A_FR
V+25A_FR
V+25A
3.3V
2.5V
GNDD
IC601
PD****A
FR
TM_ENT TP601
XOEM
45 DAGND
46 DVVCC
P97 176
P96 175
87 PN6
88 PN7
X1 134
GND 133
X601
VSS1160
16.5MHz
to FTS DRIVER
A 3/6
ST1
ST2
LODDRV
to SPDL DRIVER
A 3/6
GSW
XMON
XDRVMUTE
to RF IC (IC101)
A 3/6
WBL
GU
BCA
PPCNT
DPD/TE
DVD/XCD
AGOFF
65X78
LD_ON
RFSEL
XCD2X
to Servo Block
A 3/6
OEICG
XDFINH
SLDPOS
LODPOS
LDREAD
WBL
from CN101 22p
to R117, R118
from CN105 12p
from CN103 4p
CN403
for FRASH
TXD
RXD
DTR
CTS
V+5D
GNDD
NC
V+5V
V+33B
Q404
DTC114TUA
FRTXD
FRRXD
FRDTR
FRCTS
FR-CN901 (page5)
FR-Audio Block (page6)
FR-EBY (page3)
FR-AV1 (page3)
FR-SERVO DSP (page1)
FR-Video Block (page4,5)
V_SEL1
V_SEL2
VOFF
P/XI
HDMI/XDVI
FILMB
RFFO
SDA1
DOCDA
SCL1
DOCCL
XPRDURST
XHDMIRST
FILM
XABUSY
THLD
SBSY
XCBUSY
DSPCUR
XDSPRST
XCS4
XRD
XWRL
D8
D9
D10
D11
D12
D13
D14
D15
A3
A 4/6 to CN901
A 4/6 to Video Block
A 1/6 from SERVO DSP

A 2/6


A 3/6 to EBY
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 HXRST
27MDSP to IC1101 55p for DVD-A DSP A 6/6
27MAV1 to IC751
36MEBY for EBY
33MEBY1 to IC701 4p
A 3/6
33MSACD to IC1106 1p A 6/6
16MEBY to IC701 189p A 3/6
16MDSP to IC201 14p for SERVO DSP A 1/6
22/24AV1 to IC751 A 3/6
22/24M to IC552 6pin & IC503 2p for AQE & AUDIO DAC A 6/6
22/24HDM to IC602 8p A 4/6
956CLK
FLWCLK
A 5/6 to Mercury
IC451 TC7SHU04FUS1
IC452 TC7SH08FUS1
IC453 TC7SHU04FUS1
IC454 TC7SHU04FUS1
IC455 TC7SHU04FUS1
IC481 SM8707HV
CLOCK GENERATOR
X481 VSS1172-A 27MHz
L481 VTL1084
IC491 LC4032VAA
CN401 AKM1284
CN101 from syps ASSY
H CN101
CN402 VKN1421
E CN2101 to FLKB ASSY
IC402 MM1565AF 5V REGULATOR
IC404 MM1385EN 3V REGULATOR
IC405 NJM2880U1-05 5V REGULATOR
IC403 PQ025EZ01ZP 2.5V REGULATOR
IC471 MM1561JF 1.8V REGULATOR
IC401 PQ033EZ01ZP 3.3V REGULATOR
IC410 MM1561JF 1.8V REGULATOR
IC411 PQ025EZ01ZP 2.5V REGULATOR
DOWN LOAD
EMIFORO
SERVO DSP
PIC UP
SPDL DRV
RF IC
V AMP
SR
FTS DRV
SPDL DRV
AJKB
FTS DRV
FLKB
VJKB
FLASH
FL uCOM
HDMI JACK
T-REX
PRO-3
HDMI
CLK Generator
AV1-64M SDRAM
EBY-16M SDRAM
SACD-16M SDRAM
FLASH
AQE
XILINK
SACD
DVDA DSP
FR
AV-1
PRO-3 SDRAM
EBY-CHIP
FLOFF
SYSCLK
HXRST
ENFLOW
ENCD
SELIR
IR
SSCK
HSSCK
1394LT
1394RST
S_MTOI
S_FITOM
1394XRDY
Q401 2SA1602A(EF)
Q402 2SC4081(QR)
Q403 2SA1602A(EF)
VEF1040
FR-Clock Block (Page2)
A 4/6 to FLKB
A 5/6 to IC805 HOSTCON Serial

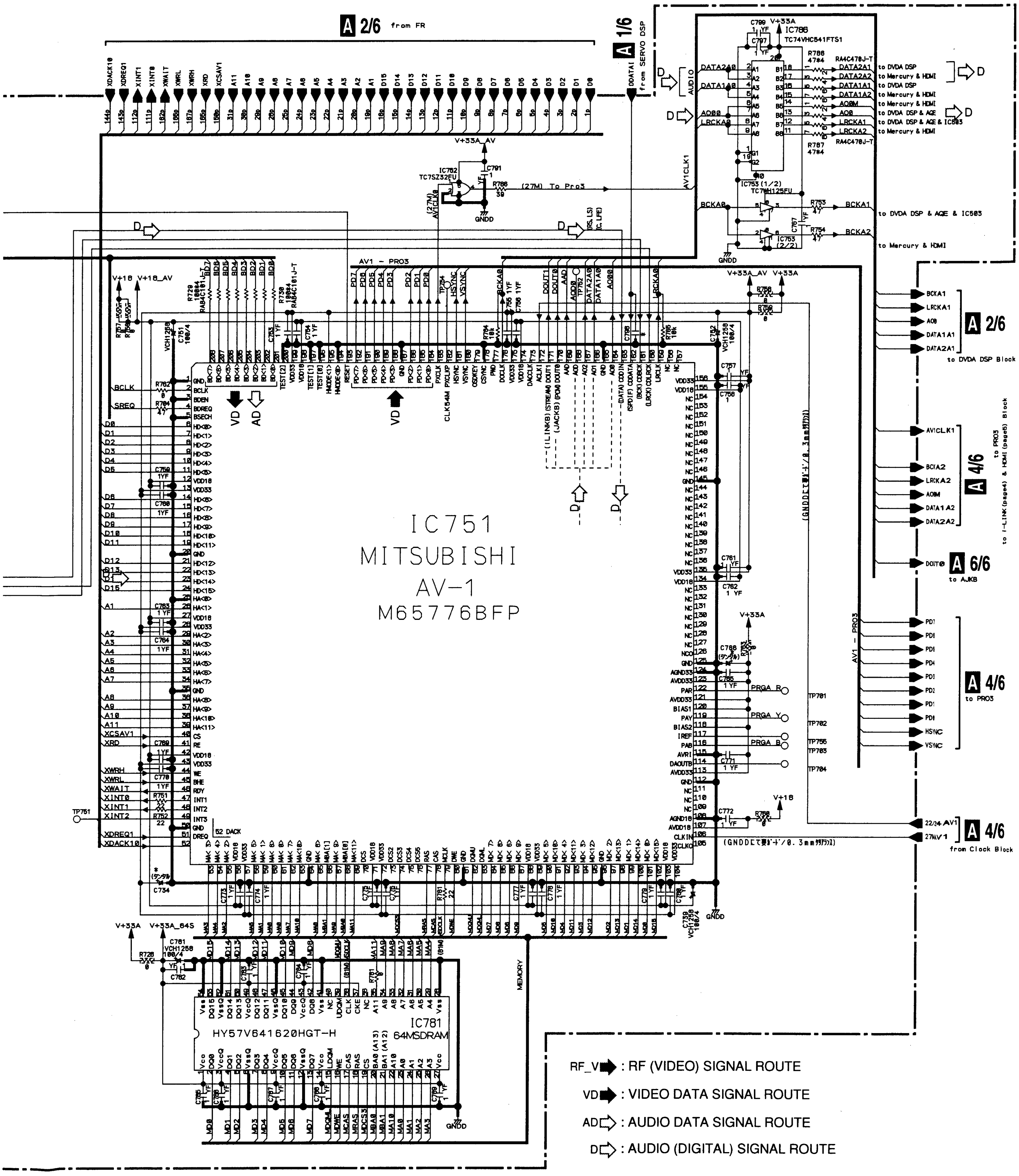
A 2/6 DVDM ASSY (VWS1601)

3.5 DVDM ASSY 3/6 [EBY/AV1 BLOCK]


1
2
3
4
A
B
C
D
E
F
IC741
16MSDRAM
K4S161622D-TC80
IC701
EBY-CHIP
PE5286B-K
A 6/6 from/to Audio Block
A 2/6 from Clock Block
A 2/6 from/to FR (IC801)
A 1/6 from SERVO DSP (IC201)
A 4/6 to Video Block
A 1/6 to Servo Block
A 1/6 from/to PLL Block
V+33A
V+33A_EBY
V+25A_EBY1
V+25A_EBY2
V+25A
GNDD
EBY - SDRAM
to AV1
VD
AD
D
RF_V
XHRST
from FLKB
(VCOCLK/AIN:GNDDにて囲む/0.3mm)

A 3/6

A 3/6 DVDM ASSY (VWS1601)


A 2/6 from FR
A 1/6 from SERVO DSP
IC751
MITSUBISHI
AV-1
M65776BFP
IC781
HY57V641620HGT-H
64MSDRAM
IC786
TC74VHC541FTS1
IC752
TC7SZ32FU
IC753 (1/2)
TC7WH125FU
IC753 (2/2)
(27M) To Pro3
AV1 - PRO3
MEMORY
BCKA1
LRCKA1
AO0
DATA1A1
DATA2A1
A 2/6
to DVDA DSP Block
AV1CLK1
BCKA2
LRCKA2
AO0M
DATA1A2
DATA2A2
A 4/6
to PRO3
to I-LINK(page4) & HDMI(page5) Block
DOIT0
A 6/6
to AJKB
PD7
PD6
PD5
PD4
PD3
PD2
PD1
PD0
HSYNC
VSYNC
A 4/6
to PRO3
22/24.AV1
27M/V1
A 4/6
from Clock Block
to DVDA DSP
to Mercury & HDMI
to DVDA DSP & AQE & IC503
to Mercury & HDMI
V+33A
V+33A_AV
V+18
V+18_AV
V+33A_64S
GNDD
PRGA_R
PRGA_Y
PRGA_B
TP751
TP701
TP702
TP755
TP703
TP704
VD
AD
D

RF_V ➡ : RF (VIDEO) SIGNAL ROUTE

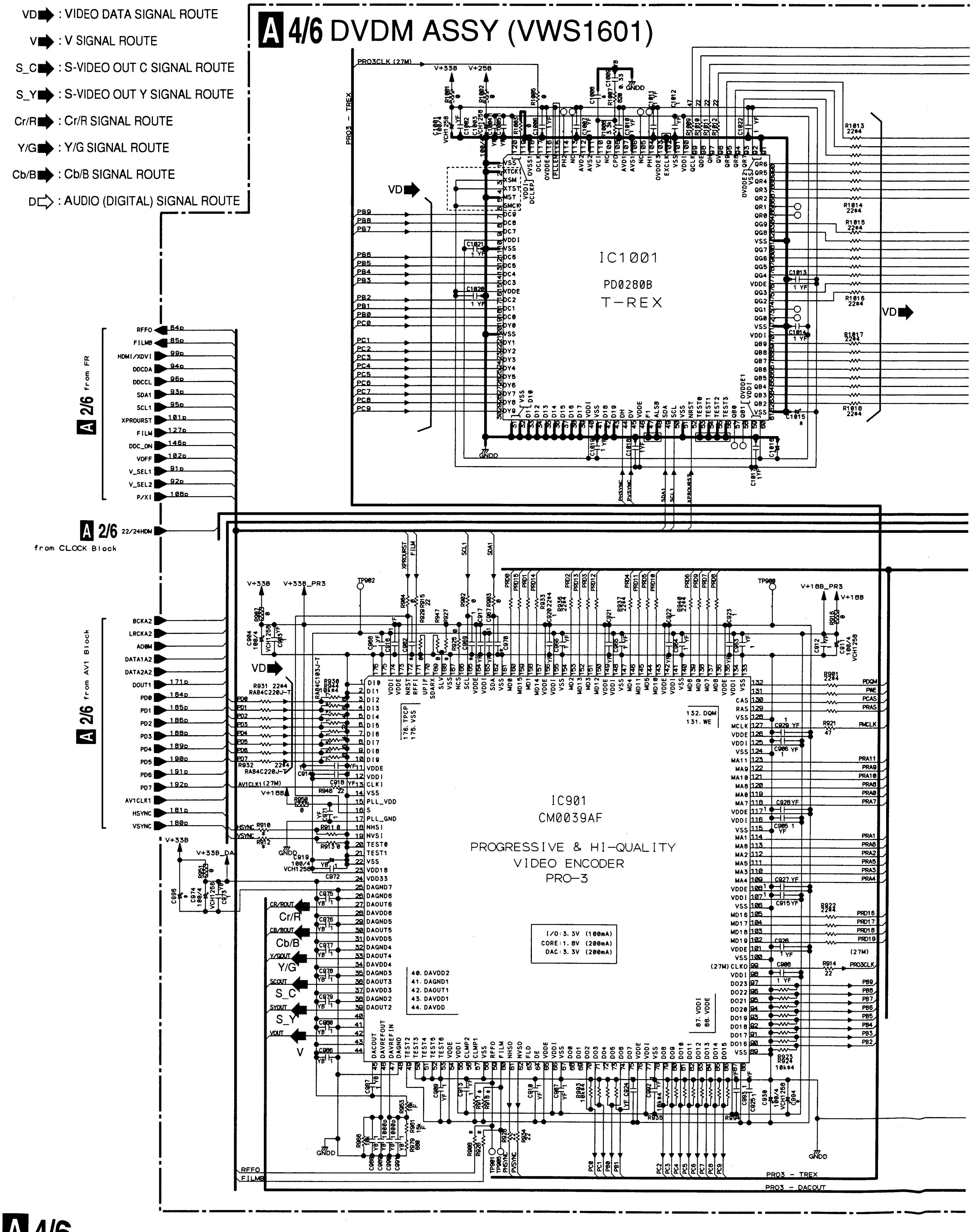
VD ➡ : VIDEO DATA SIGNAL ROUTE

AD ⇨ : AUDIO DATA SIGNAL ROUTE

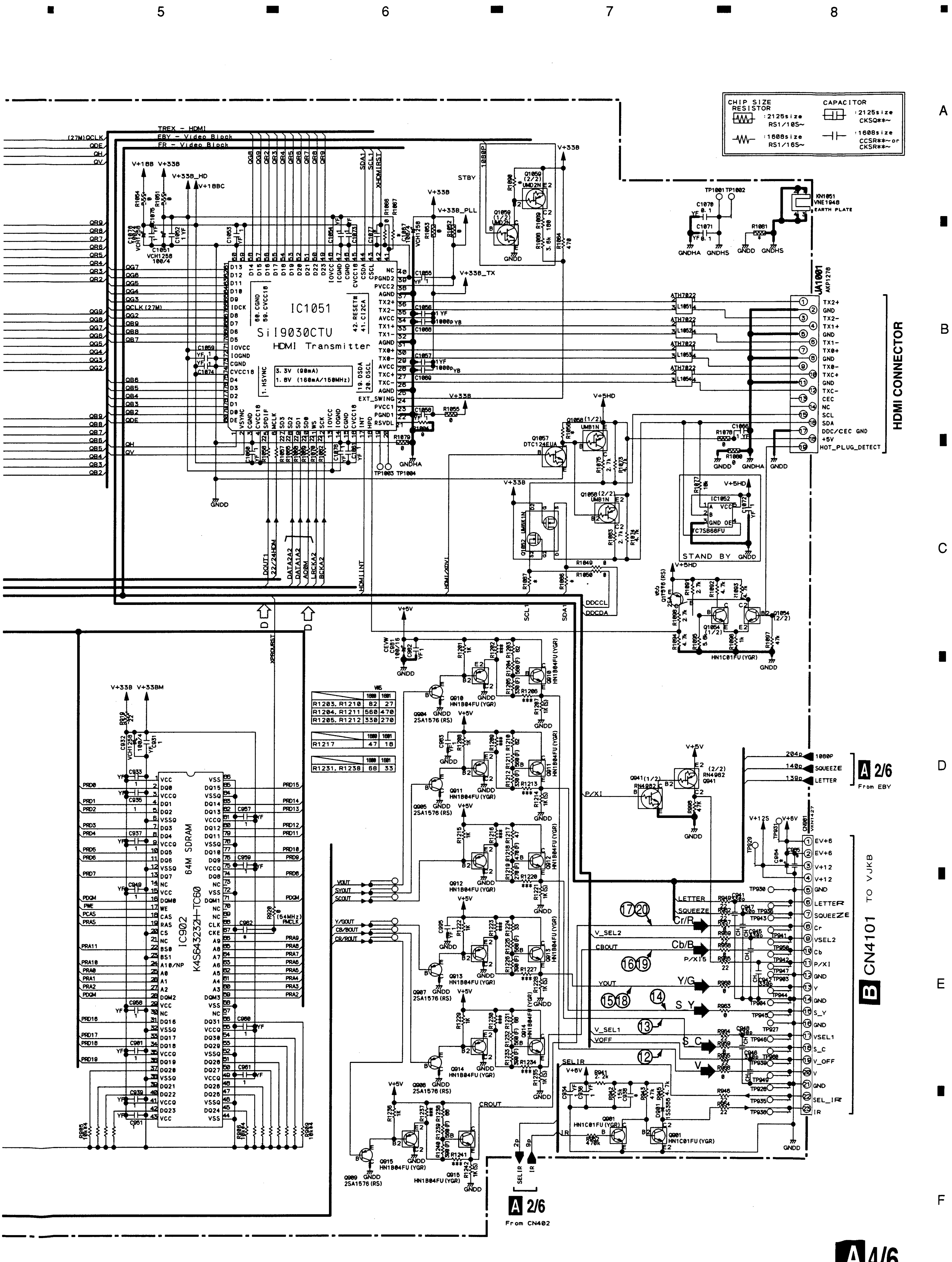
D ⇨ : AUDIO (DIGITAL) SIGNAL ROUTE

3.6 DVDM ASSY 4/6 [i.LINK BLOCK]

VD➡ : VIDEO DATA SIGNAL ROUTE
V➡ : V SIGNAL ROUTE
S_C➡ : S-VIDEO OUT C SIGNAL ROUTE
S_Y➡ : S-VIDEO OUT Y SIGNAL ROUTE
Cr/R➡ : Cr/R SIGNAL ROUTE
Y/G➡ : Y/G SIGNAL ROUTE
Cb/B➡ : Cb/B SIGNAL ROUTE
D⇨ : AUDIO (DIGITAL) SIGNAL ROUTE

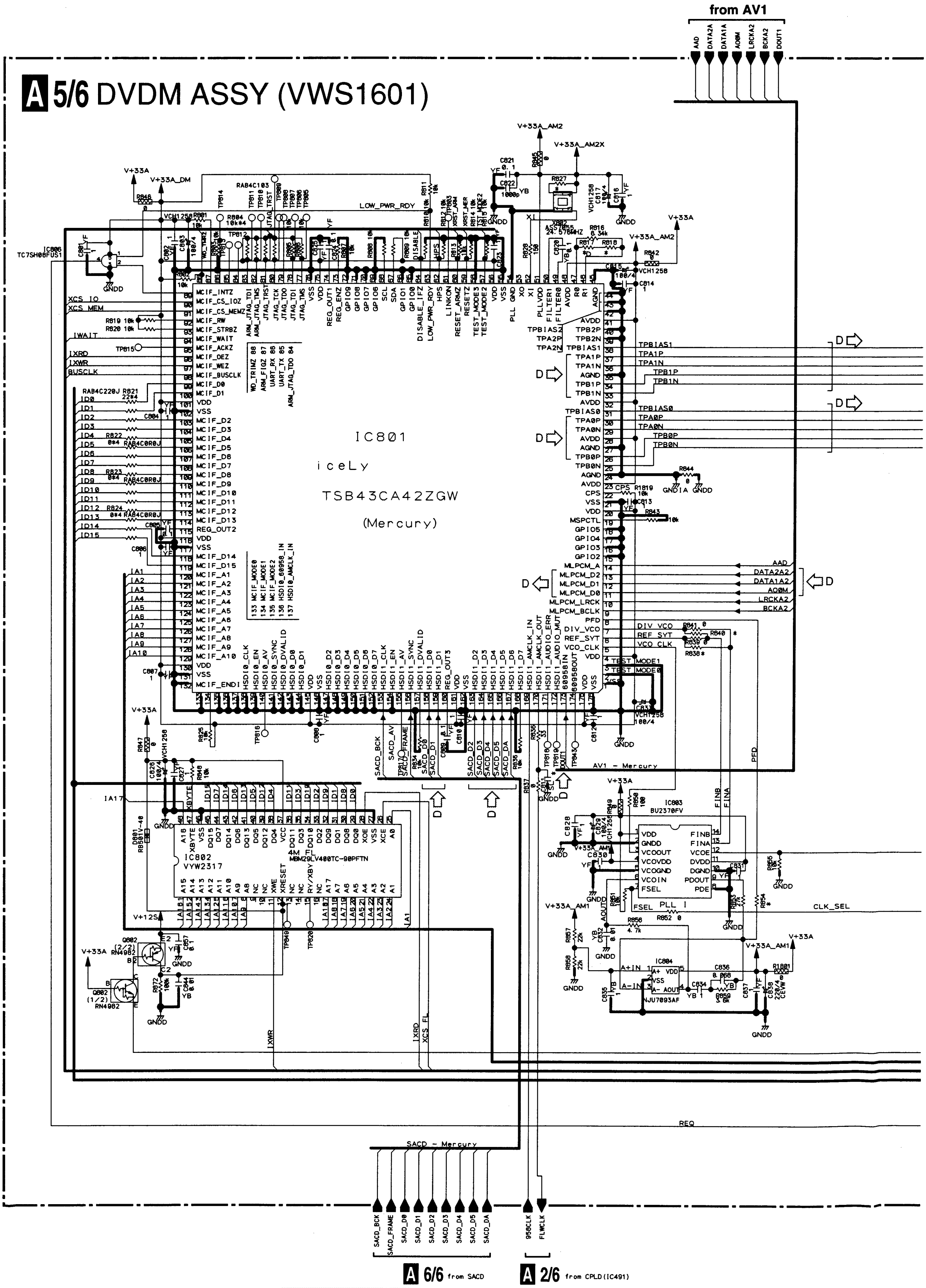

A 4/6 DVDM ASSY (VWS1601)
IC1001
PD0280B
T-REX
IC901
CM0039AF
PROGRESSIVE & HI-QUALITY
VIDEO ENCODER
PRO-3
I/O: 3.3V (100mA)
CORE: 1.8V (200mA)
DAC: 3.3V (200mA)
A 2/6 from FR
A 2/6 22/24HDM
from CLOCK Block
A 2/6 from AV1 Block
PRO3CLK (27M)
PRO3 - TREX
PRO3 - DACOUT
Cr/R
Cb/B
Y/G
S_C
S_Y
V
VD

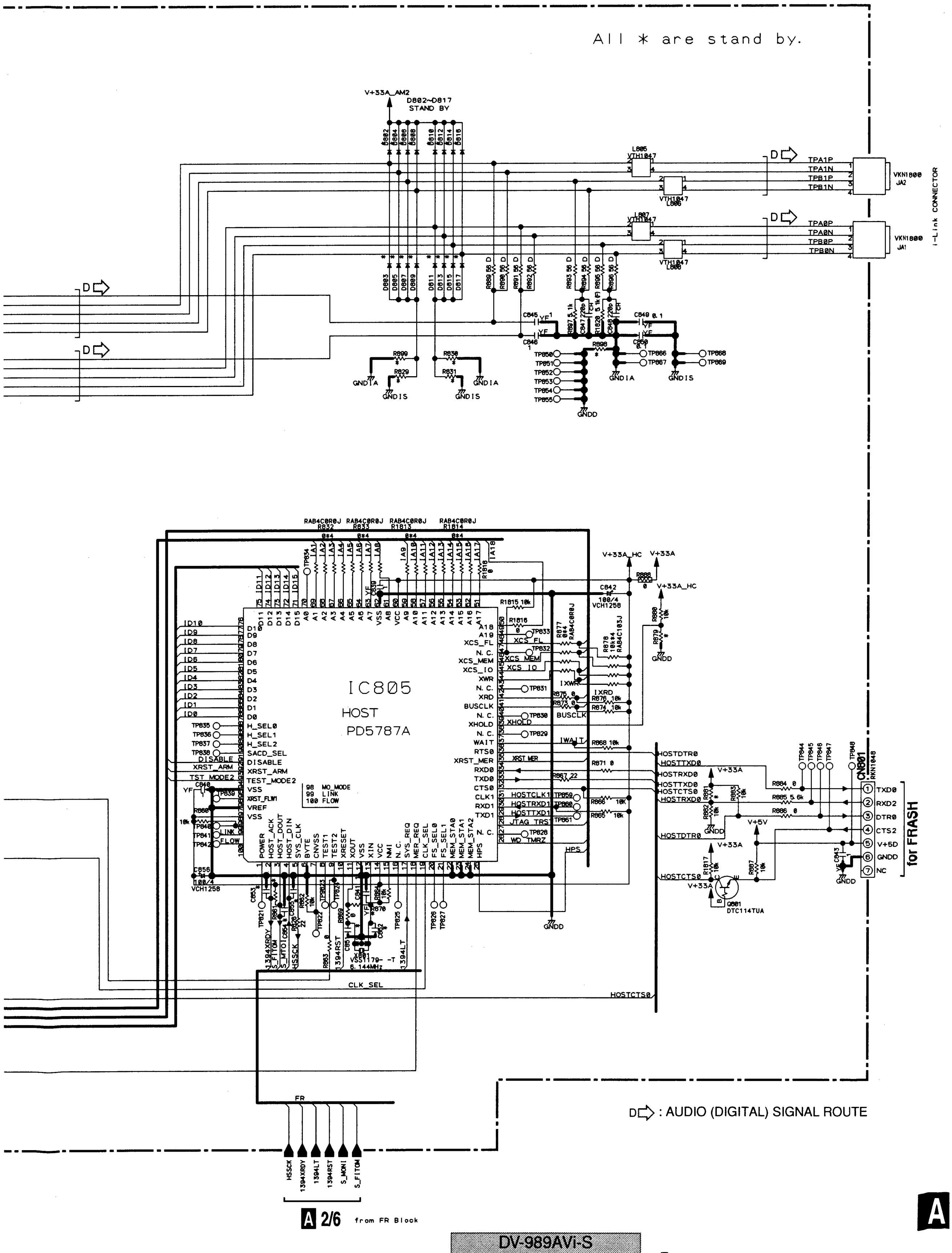
A 4/6


5
6
7
8
A
B
C
D
E
F
CHIP SIZE RESISTOR
:2125size RS1/10S~
:1608size RS1/16S~
CAPACITOR
:2125size CKSQ**~
:1608size CCSR**~or CKSR**~
TREX - HDMI
EBY - Video Block
FR - Video Block
IC1051
SiI9030CTU
HDMI Transmitter
3.3V (90mA)
1.8V (160mA/150MHz)
IC902
64M SDRAM
K4S643232H-TC60
JA1001
AKP1278
HDMI CONNECTOR
TX2+
GND
TX2-
TX1+
GND
TX1-
TX0+
GND
TX0-
TXC+
GND
TXC-
CEC
NC
SCL
SDA
DDC/CEC GND
+5V
HOT_PLUG_DETECT
KN1051
VNE1948
EARTH PLATE
IC1052
TC7SB66FU
STAND BY
STBY
1080P
SQUEEZE
LETTER
A 2/6
From EBY
CN4101
TO VJKB
B
EV+6
V+12
GND
LETTER
SQUEEZE
Cr
VSEL2
Cb
P/XI
Y
S_Y
VSEL1
S_C
V_OFF
V
SEL_IR
IR
Cr/R
Cb/B
Y/G
S Y
S C
V
⑰⑳
⑯⑲
⑮⑱
⑭
⑬
⑫
SELIR
IR
A 2/6
From CN402
HN1B04FU (YGR)
2SA1576 (RS)
HN1C01FU (YGR)
UMB1N
UMD2N
DTC124EUA
W/S
R1203, R1210 | 82 | 27
R1204, R1211 | 560 | 470
R1205, R1212 | 330 | 270
R1217 | 47 | 18
R1231, R1238 | 68 | 33

A 4/6

3.7 DVDM ASSY 5/6 [VIDEO BLOCK]

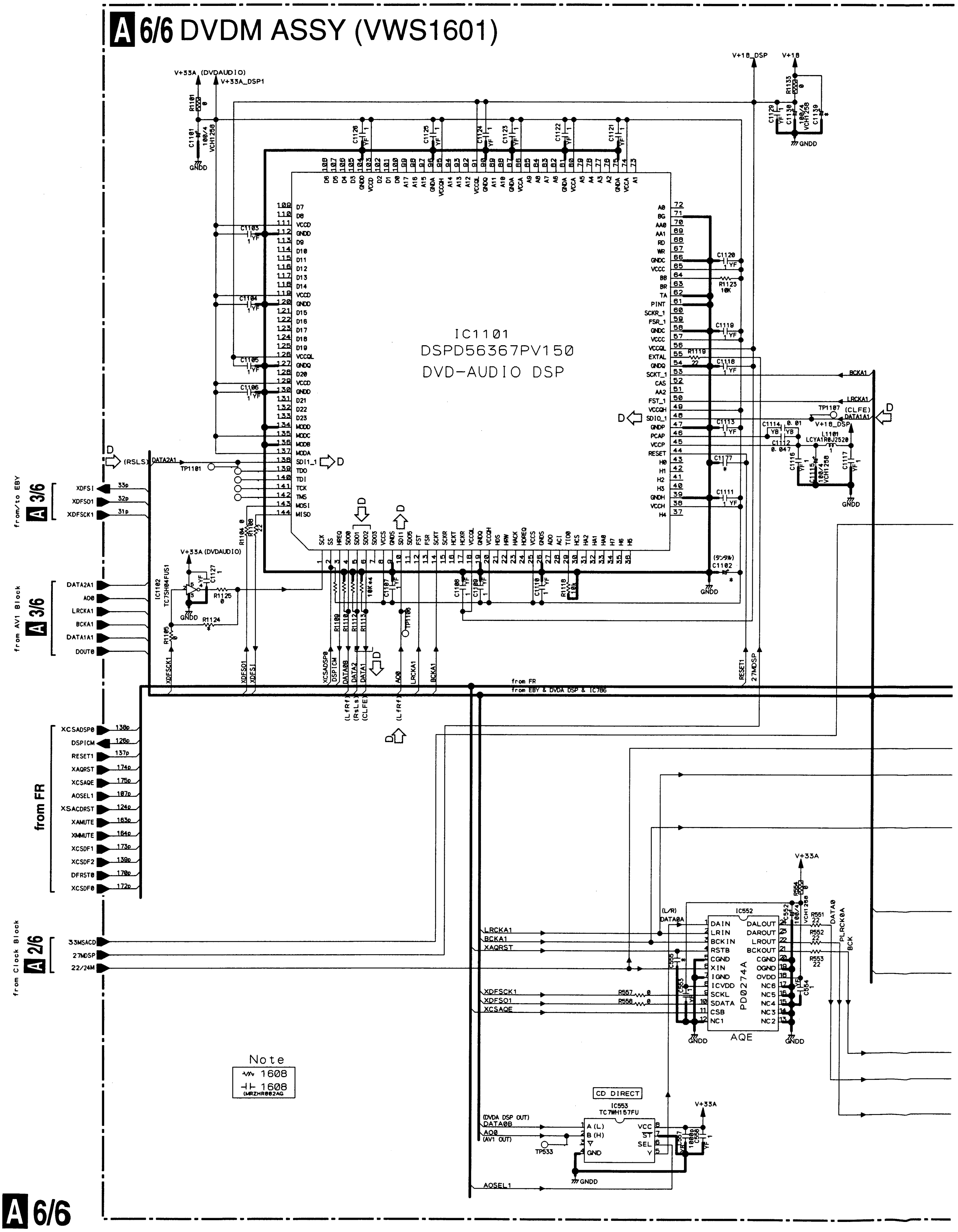

from AV1
AAD
DATA2A
DATA1A
AO0M
LRCKA2
BCKA2
DOUT1
A 5/6 DVDM ASSY (VWS1601)
V+33A_AM2
V+33A_AM2X
V+33A
V+33A_DM
RAB4C103
LOW_PWR_RDY
IC806
TC7SH08FUS1
GNDD
XCS_IO
XCS_MEM
IWAIT
IXRD
IXWR
BUSCLK
IC801
iceLy
TSB43CA42ZGW
(Mercury)
TPBIAS1
TPA1P
TPA1N
TPB1P
TPB1N
TPBIAS0
TPA0P
TPA0N
TPB0P
TPB0N
AAD
DATA2A2
DATA1A2
AO0M
LRCKA2
BCKA2
D
IC802
VYW2317
4M FL
MBM29LV400TC-90PFTN
Q802
RN4982
V+12S
V+33A
IC803
BU2370FV
PLL I
CLK_SEL
IC804
NJU7093AF
V+33A_AM1
AV1 - Mercury
SACD - Mercury
REQ
IXWR
IXRD
XCS_FL
SACD_BCK
SACD_FRAME
SACD_D0
SACD_D1
SACD_D2
SACD_D3
SACD_D4
SACD_D5
SACD_DA
956CLK
FLWCLK
A 6/6 from SACD
A 2/6 from CPLD(IC491)


All * are stand by.
V+33A_AM2
D802~D817
STAND BY
L805
VTH1047
L806
L807
L808
TPA1P
TPA1N
TPB1P
TPB1N
TPA0P
TPA0N
TPB0P
TPB0N
VKN1800
JA2
JA1
i-Link CONNECTOR
GNDIA
GNDIS
GNDD
IC805
HOST
PD5787A
RAB4C0R0J
R832
R833
R1813
R1814
V+33A_HC
V+33A
C842
100/4
VCH1258
HOSTDTR0
HOSTTXD0
HOSTRXD0
HOSTCTS0
CN801
RKN1048
TXD0
RXD2
DTR0
CTS2
V+5D
GNDD
NC
for FRASH
Q801
DTC114TUA
CLK_SEL
FR
HSSCK
1394XRDY
1394LT
1394RST
S_MONI
S_FITOW
X801
6.144MHz
98 MO_MODE
99 LINK
100 FLOW

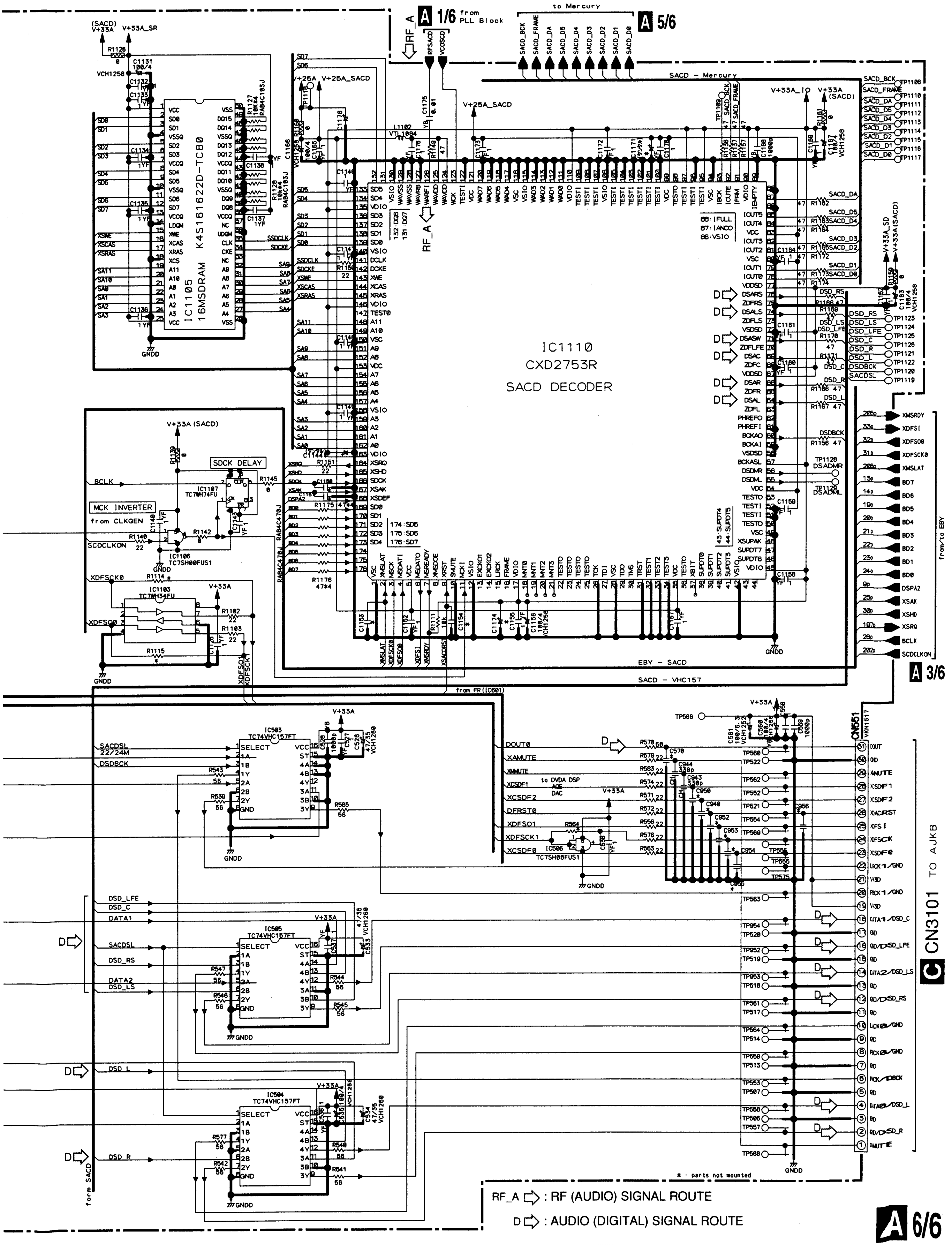
D⇨ : AUDIO (DIGITAL) SIGNAL ROUTE

A 2/6 from FR Block

3.8 DVDM ASSY 6/6 [A-DSP/AQE/SACD BLOCK]


A 6/6 DVDM ASSY (VWS1601)
V+33A (DVDAUDIO)
V+33A_DSP1
V+18_DSP
V+18
R1101
C1101
R1133
C1129
C1130
C1139
GNDD
C1126
C1125
C1124
C1123
C1122
C1121
C1103
C1104
C1105
C1106
C1120
R1123 10K
C1119
R1119
C1118
C1113
C1177
C1111
C1102
IC1101
DSPD56367PV150
DVD-AUDIO DSP
BCKA1
LRCKA1
TP1107 (CLFE)
DATA1A1
C1114 0.01
V+18_DSP
L1101
LCYA1R0J2520
C1112 0.047
C1116
C1115
C1117
(RSLS)
DATA2A1
TP1101
SDI1_1
R1104
R1108
R1109
R1110
R1112
R1113
10K×4
C1107
TP1108
C1108
C1109
C1110
R1118
IC1102
TC7SH04FU51
C1127
R1125
R1124
R1105
from/to EBY
A 3/6
XDFSI 33p
XDFSO1 32p
XDFSCK1 31p
from AV1 Block
A 3/6
DATA2A1
AO0
LRCKA1
BCKA1
DATA1A1
DOUT0
XDFSCK1
XDFSO1
XDFSI
XCSADSP0
DSPICM
DATA0B
DATA2
DATA1
(LFrf)
(RsLs)
(CLFE)
AO0
(LFrf)
LRCKA1
BCKA1
RESET1
27MDSP
from FR
from EBY & DVDA DSP & IC786
from FR
XCSADSP0 138p
DSPICM 126p
RESET1 137p
XAQRST 174p
XCSAQE 175p
AOSEL1 107p
XSACDRST 124p
XAMUTE 163p
XMMUTE 164p
XCSDF1 173p
XCSDF2 139p
DFRST0 170p
XCSDF0 172p
from Clock Block
A 2/6
33MSACD
27MDSP
22/24M
V+33A
IC552
(L/R) DATA0A
LRCKA1
BCKA1
XAQRST
XDFSCK1
XDFSO1
XCSAQE
R557 0
R558 0
DAIN
LRIN
BCKIN
RSTB
CGND
XIN
IGND
ICVDD
SCKL
SDATA
CSB
NC1
DALOUT
DAROUT
LROUT
BCKOUT
CGND
OGND
OVDD
NC6
NC5
NC4
NC3
NC2
PD0274A
AQE
C552
C553
C554
C555
R551 22
R552 22
R553 22
DATA0
PLRCK0A
BCK
Note
1608
1608
(MRZHR002AG)
CD DIRECT
IC553
TC7WH157FU
(DVDA DSP OUT)
DATA0B
AO0
(AV1 OUT)
TP533
A (L)
B (H)
Y
GND
VCC
ST
SEL
Y
V+33A
C556
C557
GNDD
AOSEL1

A 6/6

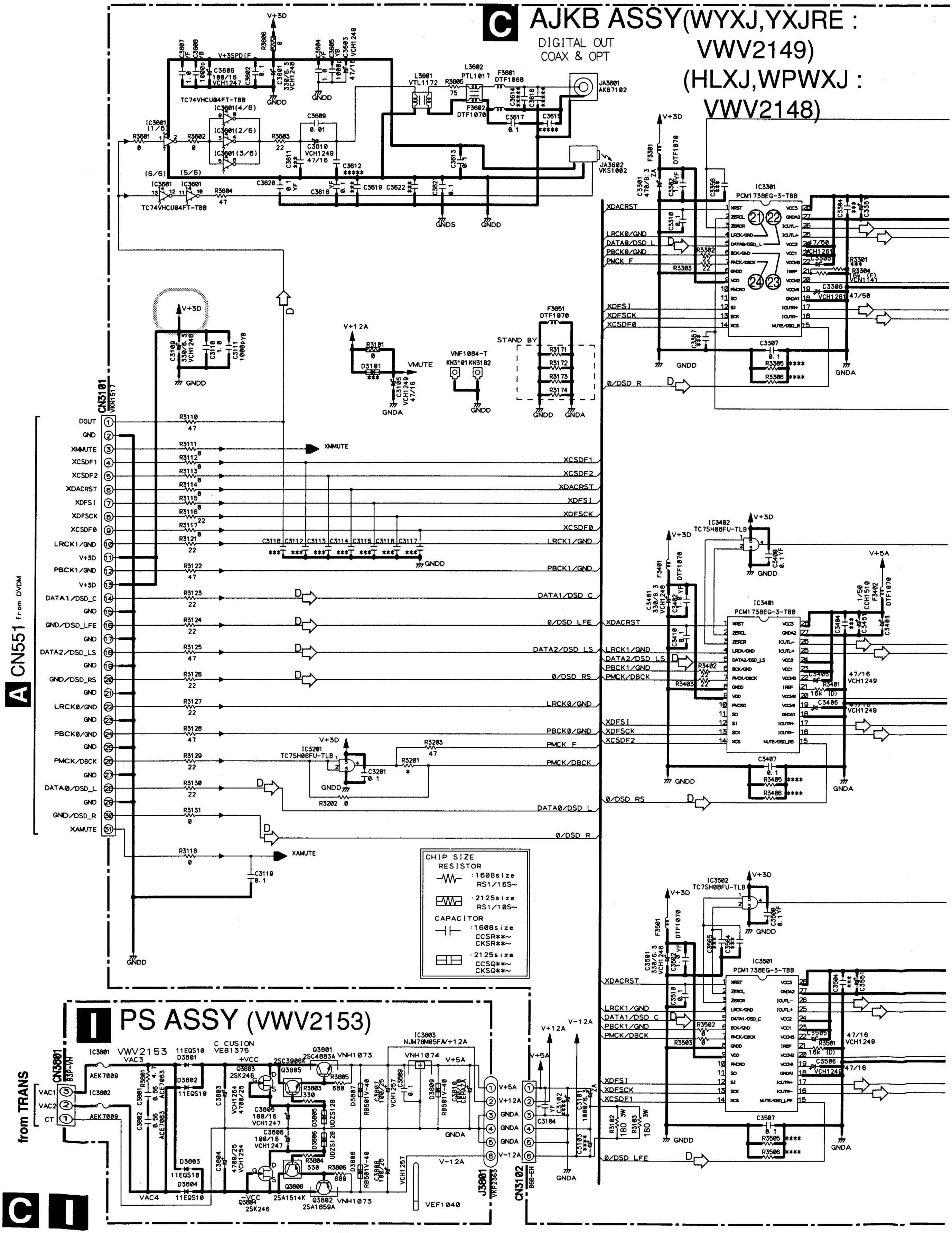

A 1/6 from PLL Block
to Mercury
A 5/6
RF_A
RFSACD
VCOSCD
SACD_BCK
SACD_FRAME
SACD_DA
SACD_D5
SACD_D4
SACD_D3
SACD_D2
SACD_D1
SACD_D0
SACD - Mercury
(SACD) V+33A
V+33A_SR
V+25A
V+25A_SACD
V+33A_IO
IC1105
16MSDRAM K4S161622D-TC80
IC1110
CXD2753R
SACD DECODER
SDCK DELAY
MCK INVERTER
from CLKGEN
IC1107 TC7WH74FU
IC1106 TC7SH08FUS1
IC1103 TC7WH34FU
EBY - SACD
SACD - VHC157
from FR(IC601)
A 3/6
from/to EBY
XMSRDY
XDFSI
XDFSO0
XDFSCK0
XMSLAT
BD7
BD6
BD5
BD4
BD3
BD2
BD1
BD0
DSPA2
XSAK
XSHD
XSRQ
BCLK
SCDCLKON
IC503 TC74VHC157FT
IC505 TC74VHC157FT
IC504 TC74VHC157FT
IC506 TC7SH08FUS1
to DVDA DSP ADE DAC
SACDSL
22/24M
DSDBCK
DSD_LFE
DSD_C
DATA1
DSD_RS
DATA2
DSD_LS
DSD_L
DSD_R
from SACD
CN551 VKN1517
C CN3101 TO AJKB
GNDD
* : parts not mounted

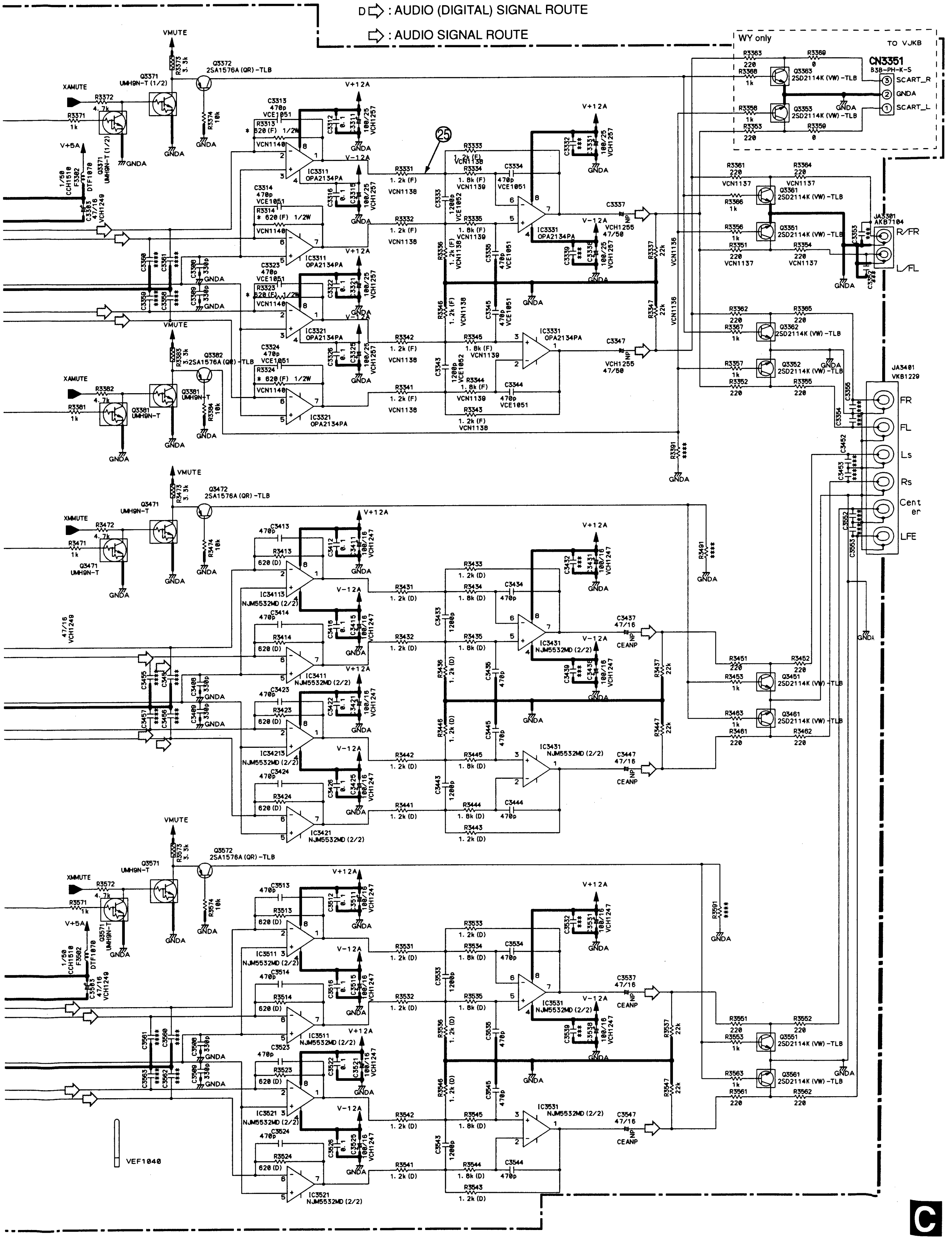
RF_A ⇨ : RF (AUDIO) SIGNAL ROUTE

D ⇨ : AUDIO (DIGITAL) SIGNAL ROUTE

A 6/6

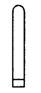
3.9 AJKB ASSY


C
AJKB ASSY(WYXJ,YXJRE : VWV2149)
(HLXJ,WPWXJ : VWV2148)
DIGITAL OUT
COAX & OPT
JA3601 AKB7102
JA3602 VKS1002
IC3301 PCM1738EG-3-TBB
IC3401 PCM1738EG-3-TBB
IC3501 PCM1738EG-3-TBB
IC3601 TC74VHCU04FT-TBB
IC3201 TC7SH08FU-TLB
IC3402 TC7SH08FU-TLB
IC3502 TC7SH08FU-TLB
CN3101 VKN1517
A CN551 from DVDM
STAND BY
CHIP SIZE
RESISTOR
:1608size RS1/16S~
:2125size RS1/10S~
CAPACITOR
:1608size CCSR**~ CKSR**~
:2125size CCSQ**~ CKSQ**~
I PS ASSY (VWV2153)
from TRANS
CN3801 B3P-VH
J3801 VKP2363
CN3102 B6B-EH
IC3803 NJM78M05FA/+12A
C I

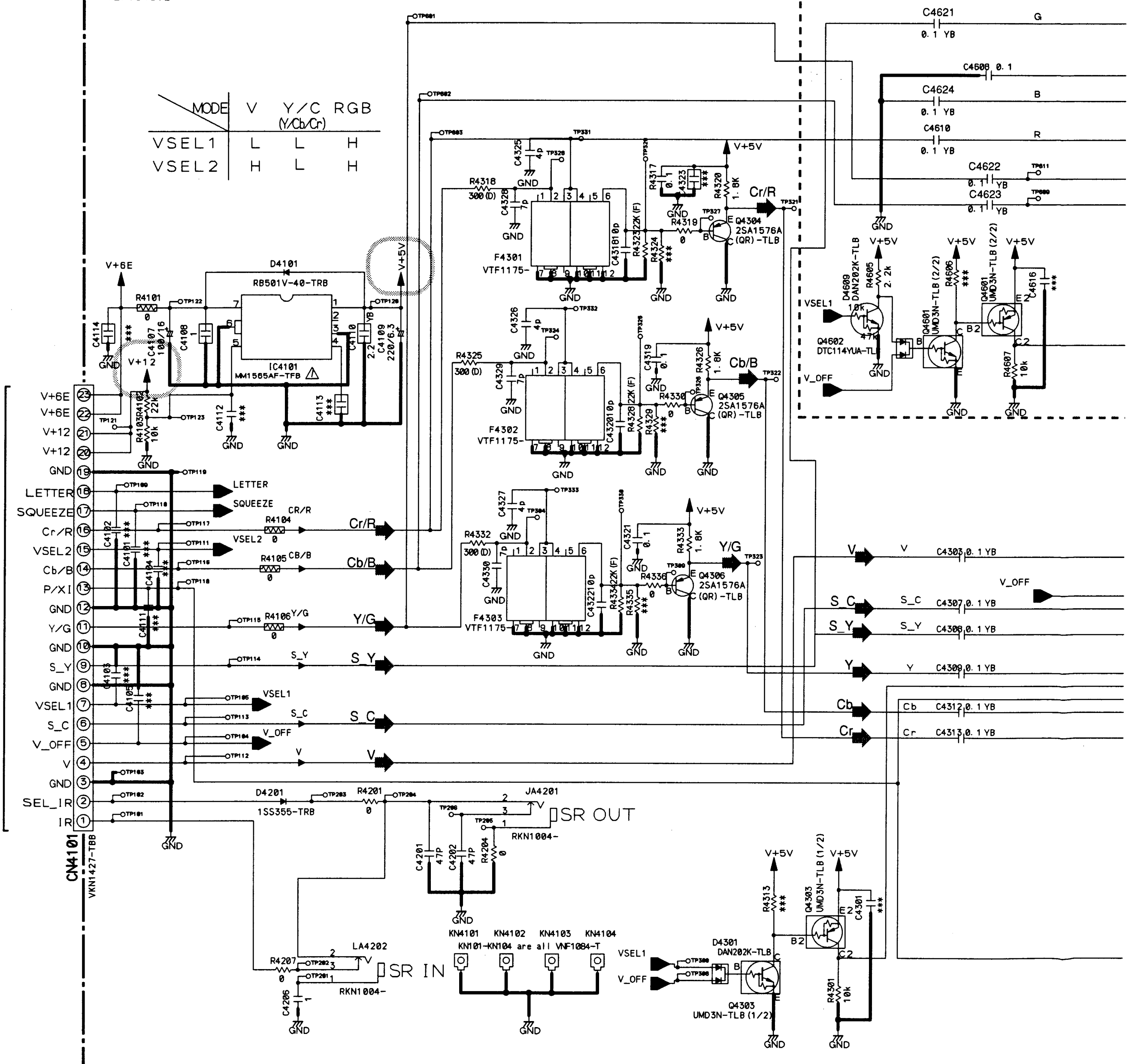

D ⇨ : AUDIO (DIGITAL) SIGNAL ROUTE
⇨ : AUDIO SIGNAL ROUTE
A
B
C
D
E
F
WY only
TO VJKB
CN3351
B3B-PH-K-S
SCART_R
GNDA
SCART_L
JA3301
AKB7104
R/FR
L/FL
JA3401
VKB1229
FR
FL
Ls
Rs
Center
LFE
VMUTE
XAMUTE
XMMUTE
V+5A
V+12A
V-12A
Q3372 2SA1576A (QR) -TLB
Q3472 2SA1576A (QR) -TLB
Q3572 2SA1576A (QR) -TLB
IC3311 OPA2134PA
IC3321 OPA2134PA
IC3331 OPA2134PA
IC3411 NJM5532MD (2/2)
IC3421 NJM5532MD (2/2)
IC3431 NJM5532MD (2/2)
IC3511 NJM5532MD (2/2)
IC3521 NJM5532MD (2/2)
IC3531 NJM5532MD (2/2)
Q3361 2SD2114K (VW) -TLB
Q3351 2SD2114K (VW) -TLB
Q3362 2SD2114K (VW) -TLB
Q3352 2SD2114K (VW) -TLB
Q3451 2SD2114K (VW) -TLB
Q3461 2SD2114K (VW) -TLB
Q3551 2SD2114K (VW) -TLB
Q3561 2SD2114K (VW) -TLB
Q3363 2SD2114K (VW) -TLB
Q3353 2SD2114K (VW) -TLB
㉕
VEF1040

3.10 VJKB ASSY

B VJKB ASSY
(WYXJ,YXJRE:VWV2152)
(HLXJ : VWV2150)
(WPWXJ: VWV2151)



MODE	V	Y/C (Y/Cb/Cr)	RGB
VSEL1	L	L	H
VSEL2	H	L	H



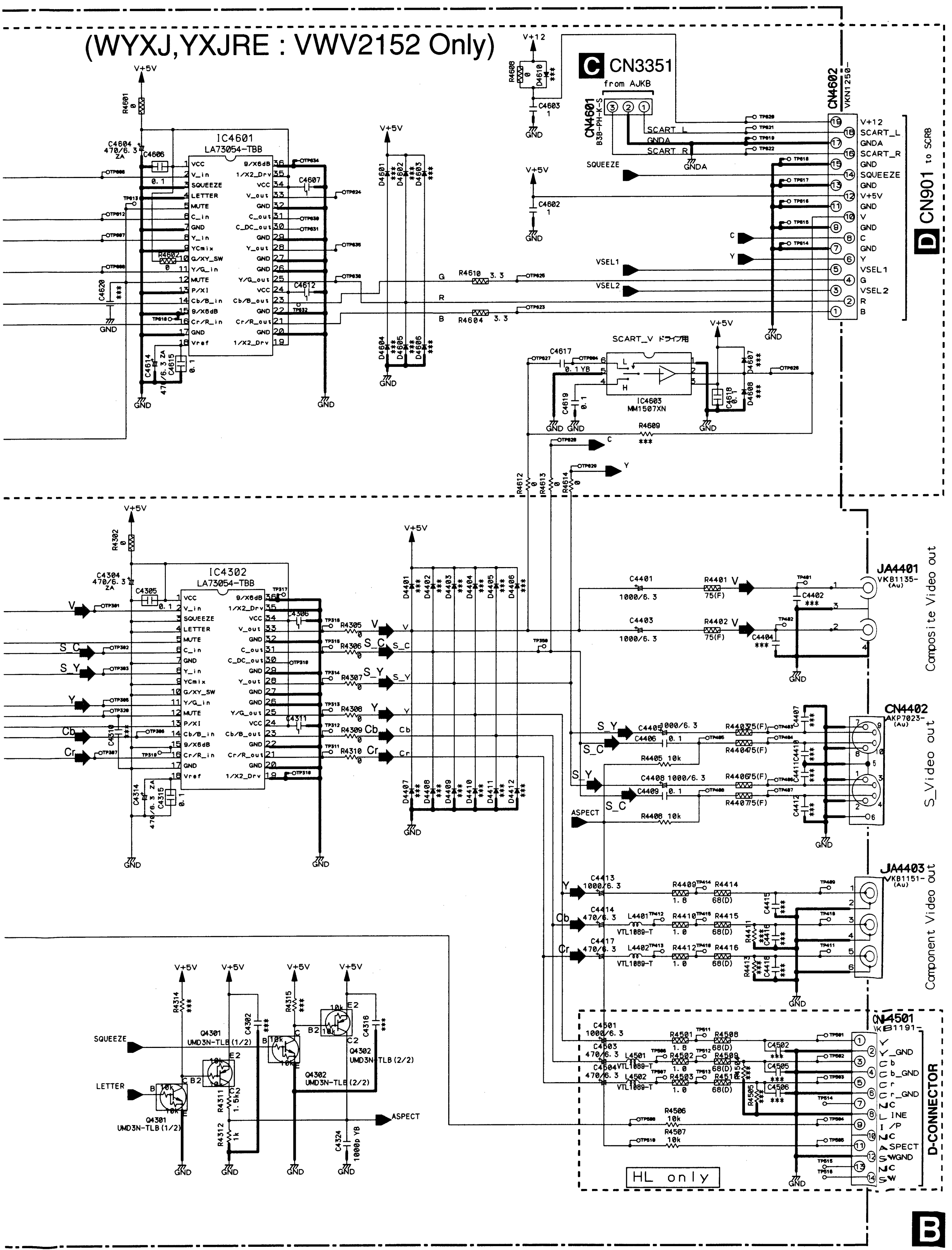
A CN901 from DVDM
CN4101 VKN1427-TBB
V+6E
V+6E
V+12
V+12
GND
LETTER
SQUEEZE
Cr/R
VSEL2
Cb/B
P/XI
GND
Y/G
GND
S_Y
GND
VSEL1
S_C
V_OFF
V
GND
SEL_IR
IR
IC4101 MM1565AF-TFB
D4101 RB501V-40-TRB
R4101 0
R4102 22k
R4103 10k
C4107 100/16
C4109 220/6.3
V+5V
V+12
F4301 VTF1175-
F4302 VTF1175-
F4303 VTF1175-
R4318 300(D)
R4325 300(D)
R4332 300(D)
Q4304 2SA1576A (QR)-TLB
Q4305 2SA1576A (QR)-TLB
Q4306 2SA1576A (QR)-TLB
Cr/R
Cb/B
Y/G
S_Y
S_C
V
R4104 0
R4105 0
R4106 0
D4201 1SS355-TRB
R4201 0
JA4201
SR OUT
RKN1004-
LA4202
SR IN
R4207 0
KN4101 KN4102 KN4103 KN4104
KN101-KN104 are all VNF1084-T
D4301 DAN202K-TLB
Q4303 UMD3N-TLB (1/2)
R4301 10k
D4609 DAN202K-TLB
Q4602 DTC114YUA-TL
Q4601 UMD3N-TLB (2/2)
R4607 10k
R4605 2.2k
C4621 0.1 YB
C4608 0.1
C4624 0.1 YB
C4610 0.1 YB
C4622 0.1 YB
C4623 0.1 YB
G
B
R
C4303 0.1 YB
C4307 0.1 YB
C4306 0.1 YB
C4309 0.1 YB
C4312 0.1 YB
C4313 0.1 YB
V_OFF
Cb
Cr
GND

UNIT No.	
VWV2151- /J	DV- 989AVi-G/HLXJ
	DV-989AVi-S /WPWXJ
VWV2152- /J	DV-989AVi-S/WYXJ

PCB No.
VNP2024

CHIP SIZE
RESISTOR
:2125size
:1608size
CAPACITOR
:2125size
:1608size

V➡ : V SIGNAL ROUTE
S_C➡ : S-VIDEO OUT C SIGNAL ROUTE
S_Y➡ : S-VIDEO OUT Y SIGNAL ROUTE
Cr/R➡ : Cr/R SIGNAL ROUTE
Y/G➡ : Y/G SIGNAL ROUTE
Cb/B➡ : Cb/B SIGNAL ROUTE
⇨ : AUDIO SIGNAL ROUTE

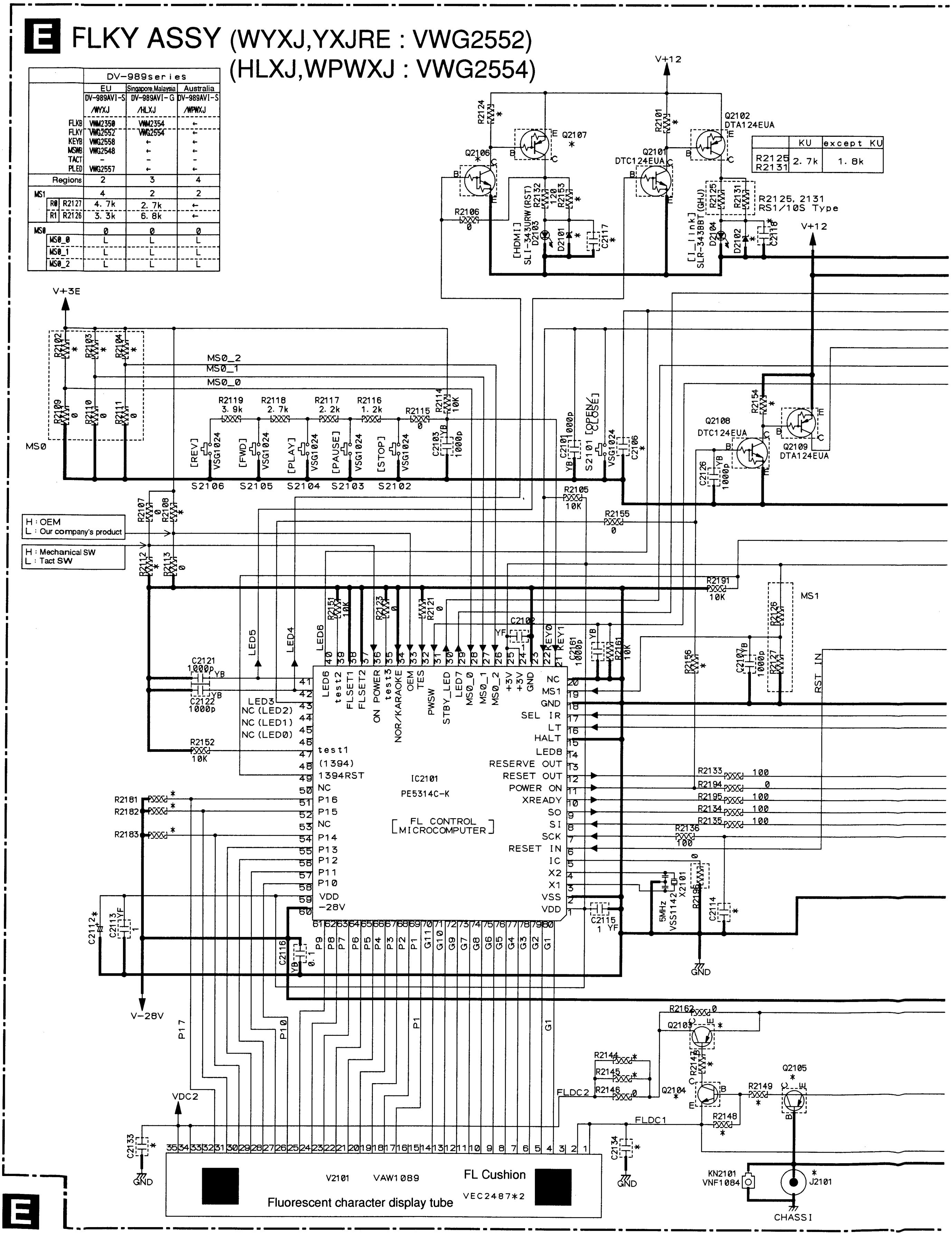

(WYXJ,YXJRE : VWV2152 Only)
IC4601
LA73054-TBB
IC4302
LA73054-TBB
C CN3351
from AJKB
CN4601
B3B-PH-K-S
CN4602
VKN1250-
D CN901 to SCRB
V+12
SCART_L
GNDA
SCART_R
GND
SQUEEZE
V+5V
V
C
Y
VSEL1
G
VSEL2
R
B
SCART_V ドライブ用
IC4603
MM1507XN
R4609
R4612
R4613
R4614
R4610 3.3
R4604 3.3
JA4401
VKB1135-
Composite Video out
CN4402
AKP7023-
S_Video out
JA4403
VKB1151-
Component Video out
CN4501
VKB1191-
D-CONNECTOR
Y
Y_GND
Cb
Cb_GND
Cr
Cr_GND
NC
LINE
I/P
NC
ASPECT
SWGND
NC
SW
HL only
SQUEEZE
LETTER
ASPECT
Q4301
UMD3N-TLB (1/2)
Q4302
UMD3N-TLB (2/2)
R4311 1.5k
R4312 1k
C4324 1000p YB
R4314
R4315
C4302
C4316
R4401 75(F)
R4402 75(F)
C4401 1000/6.3
C4403 1000/6.3
R4405 10k
R4408 10k
R4506 10k
R4507 10k
L4401 VTL1089-T
L4402 VTL1089-T
L4501 VTL1089-T
L4502 VTL1089-T
GND
A
B
C
D
E
F
B

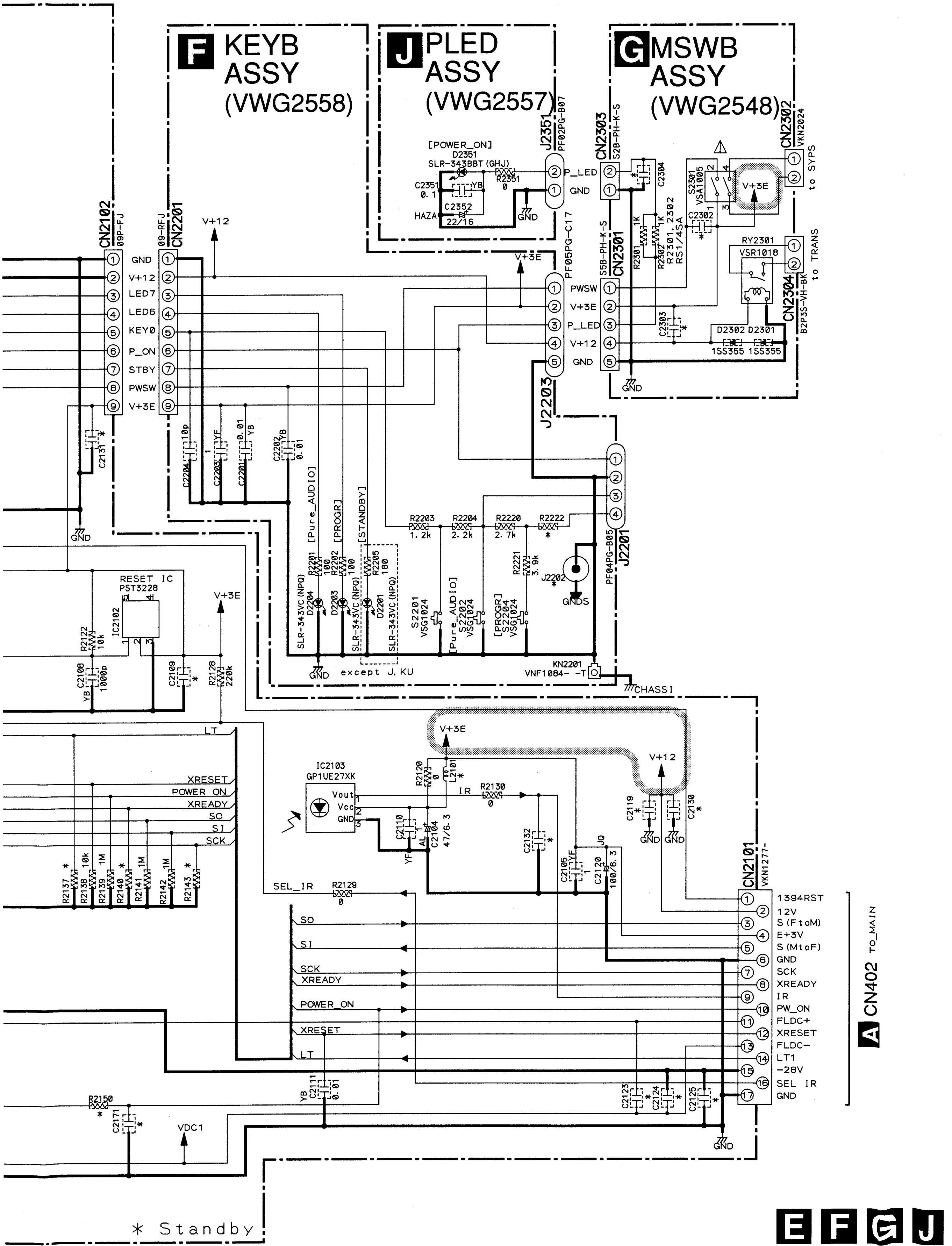
3.11 FLKY, KEYB and MSWB ASSYS

E FLKY ASSY (WYXJ,YXJRE : VWG2552) (HLXJ,WPWXJ : VWG2554)

			DV-989series		
			EU	Singapore,Malaysia	Australia
			DV-989AVI-S /WYXJ	DV-989AVI-G /HLXJ	DV-989AVI-S /WPWXJ
		FLKB	VWM2350	VWM2354	←
		FLKY	VWG2552	VWG2554	←
		KEYB	VWG2558	←	←
		MSWB	VWG2548	←	←
		TACT	-	-	-
		PLED	VWG2557	←	←
		Regions	2	3	4
MS1			4	2	2
	R0	R2127	4. 7k	2. 7k	←
	R1	R2126	3. 3k	6. 8k	←
MS0			0	0	0
	MS0_0		L	L	L
	MS0_1		L	L	L
	MS0_2		L	L	L

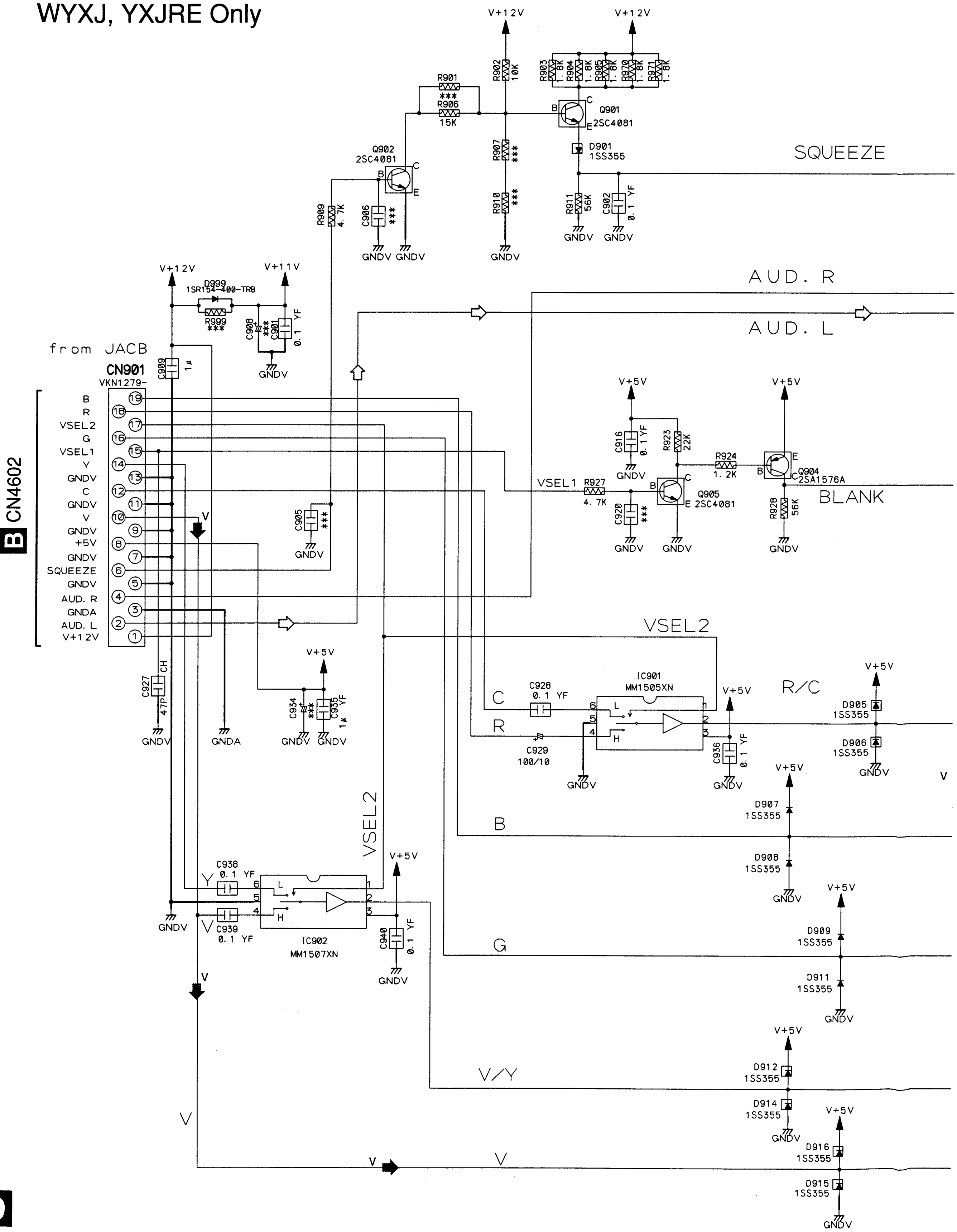
	KU	except KU
R2125 R2131	2. 7k	1. 8k


V+12
R2124 *
Q2107 *
Q2106
R2101 *
Q2102
DTA124EUA
Q2101
DTC124EUA
R2132
R2133 120
R2106 0
[HDMI] SLI-343URW(RST) D2103
D2101
C2117 *
[i_link] SLR-343BBT(GHJ) D2104
R2125
R2131
D2102
C2118 *
R2125, 2131
RS1/10S Type
V+12
V+3E
R2102 *
R2103 *
R2104 *
MS0_2
MS0_1
MS0_0
R2109 0
R2110 0
R2111 0
MS0
R2119 3.9k
R2118 2.7k
R2117 2.2k
R2116 1.2k
R2115 0
R2114 10K
[REV] VSG1024 S2106
[FWD] VSG1024 S2105
[PLAY] VSG1024 S2104
[PAUSE] VSG1024 S2103
[STOP] VSG1024 S2102
C2103 YB 1000p
C2101 YB 1000p
S2101 [OPEN/CLOSE] VSG1024
C2106 *
R2105 10K
R2155 0
R2154 *
Q2108 DTC124EUA
Q2109 DTA124EUA
C2126 YB 1000p
R2107
R2108 *
H : OEM
L : Our company's product
H : Mechanical SW
L : Tact SW
R2112 *
R2113 0
R2191 10K
MS1
R2126
R2127
R2156 *
C2107 YB 1000p
RST IN
LED5
LED4
LED6
R2151 10K
R2123 0
R2121 0
C2102 YF
KEY0
KEY1
C2161 1000p YB
R2161 10K
C2121 1000p YB
C2122 1000p YB
LED3
NC (LED2)
NC (LED1)
NC (LED0)
R2152 10K
test1
(1394)
1394RST
NC
P16
P15
NC
P14
P13
P12
P11
P10
VDD
-28V
LED6
test2
FLSET1
FLSET2
ON POWER
test3
NOR/KARAOKE
OEM
TES
PWSW
STBY_LED
LED7
MS0_0
MS0_1
MS0_2
+3V
+3V
GND
NC
MS1
GND
SEL IR
LT
HALT
LED8
RESERVE OUT
RESET OUT
POWER ON
XREADY
SO
SI
SCK
RESET IN
IC
X2
X1
VSS
VDD
IC2101
PE5314C-K
FL CONTROL MICROCOMPUTER
P9 P8 P7 P6 P5 P4 P3 P2 P1 G11 G10 G9 G8 G7 G6 G5 G4 G3 G2 G1
R2133 100
R2194 0
R2195 100
R2134 100
R2135 100
R2136 100
X2101 5MHz VSS1142
R2196 0
C2114 *
C2115 1 YF
GND
R2181 *
R2182 *
R2183 *
C2112 *
C2113 YF 1
C2116 YB 0.1
V-28V
P17
P10
P1
G1
R2162 0
Q2103 *
R2144 *
R2145 *
R2146 0
R2147 *
FLDC2
Q2104 *
R2149 *
Q2105 *
R2148 *
FLDC1
VDC2
C2133 *
C2134 *
GND
V2101 VAW1089
FL Cushion
VEC2487*2
Fluorescent character display tube
KN2101 VNF1084
J2101 *
CHASSI


F KEYB ASSY (VWG2558)
J PLED ASSY (VWG2557)
G MSWB ASSY (VWG2548)
CN2102 09P-FJ
CN2201 09-RFJ
GND
V+12
LED7
LED6
KEY0
P_ON
STBY
PWSW
V+3E
C2131 *
J2351 PF02PG-B07
[POWER_ON]
D2351
SLR-343BBT(GHJ)
R2351 0
C2351 0.1
C2352 22/16
YB
HAZA
P_LED
GND
J2203 PF05PG-C17
PWSW
V+3E
P_LED
V+12
GND
CN2303 S2B-PH-K-S
CN2301 S5B-PH-K-S
C2304
R2301 1K
R2302 1K
R2301, 2302 RS1/4SA
S2301 VSA1005
C2302 *
C2303 *
CN2302 VKN2024
to SYPS
V+3E
RY2301 VSR1018
to TRANS
CN2304 B2P3S-VH-BK
D2302 D2301
1SS355 1SS355
C2204 10p
C2203 YF
C2201 0.01 YB
C2202 YB 0.01
R2203 1.2k
R2204 2.2k
R2220 2.7k
R2222 *
R2221 3.9k
J2201 PF04PG-B05
J2202 *
GNDS
[Pure_AUDIO]
[PROGR]
[STANDBY]
R2201 100
R2202 100
R2205 180
SLR-343VC(NPQ) D2204
D2203 SLR-343VC(NPQ)
D2201 SLR-343VC(NPQ)
except J. KU
S2201 VSG1024
[Pure_AUDIO] S2202 VSG1024
[PROGR] S2204 VSG1024
KN2201 VNF1084-T
CHASSI
RESET IC PST3228
IC2102
R2122 10k
C2108 YB 1000p
C2109 *
R2128 220k
V+3E
LT
XRESET
POWER ON
XREADY
SO
SI
SCK
R2137 *
R2138 10k
R2139 1M
R2140 *
R2141 1M
R2142 1M
R2143 *
IC2103 GP1UE27XK
Vout
Vcc
GND
V+3E
R2120 0
L2101 *
R2130 0
IR
V+12
C2119 *
C2130 *
C2110 YF
C2104 AL 47/6.3
C2132 *
C2105 YF
C2120 JQ 100/6.3
SEL_IR
R2129 0
SO
SI
SCK
XREADY
POWER_ON
XRESET
LT
CN2101 VKN1277-
1394RST
12V
S(FtoM)
E+3V
S(MtoF)
GND
SCK
XREADY
IR
PW_ON
FLDC+
XRESET
FLDC-
LT1
-28V
SEL IR
GND
A CN402 TO_MAIN
C2111 YB 0.01
C2123 *
C2124 *
C2125 *
R2150 *
C2171 *
VDC1
GND
* Standby
E F G J

3.12 SCRB ASSY (WYXJ5, YXJRE5 Only)

D SCRB ASSY (VWV1992)
WYXJ, YXJRE Only


V+12V
V+12V
R901
***
R906
15K
R902
10K
R903
1.8K
R904
1.8K
R905
1.8K
R970
1.8K
R971
1.8K
Q901
2SC4081
B
C
E
D901
1SS355
SQUEEZE
Q902
2SC4081
R907
***
R910
***
R911
56K
C902
0.1 YF
R909
4.7K
C906
***
GNDV
AUD. R
AUD. L
V+12V
V+11V
D999
1SR154-400-TRB
R999
***
C908
***
C901
0.1 YF
from JACB
CN901
VKN1279-
C909
1µ
B
R
VSEL2
G
VSEL1
Y
GNDV
C
GNDV
V
GNDV
+5V
GNDV
SQUEEZE
GNDV
AUD. R
GNDA
AUD. L
V+12V
B CN4602
V+5V
C916
0.1 YF
R923
22K
R924
1.2K
Q904
2SA1576A
VSEL1
R927
4.7K
C920
***
Q905
2SC4081
R928
56K
BLANK
C905
***
VSEL2
C927
47P
CH
GNDA
V+5V
C934
***
C935
1µ
IC901
MM1505XN
C928
0.1 YF
C
R
C929
100/10
L
H
C936
0.1 YF
R/C
D905
1SS355
D906
1SS355
D907
1SS355
D908
1SS355
B
V
VSEL2
C938
0.1 YF
Y
C939
0.1 YF
V
IC902
MM1507XN
C940
0.1 YF
G
D909
1SS355
D911
1SS355
D912
1SS355
D914
1SS355
V/Y
V
D916
1SS355
D915
1SS355
V

V➡ : V SIGNAL ROUTE

S_C➡ : S-VIDEO OUT C SIGNAL ROUTE

S_Y➡ : S-VIDEO OUT Y SIGNAL ROUTE

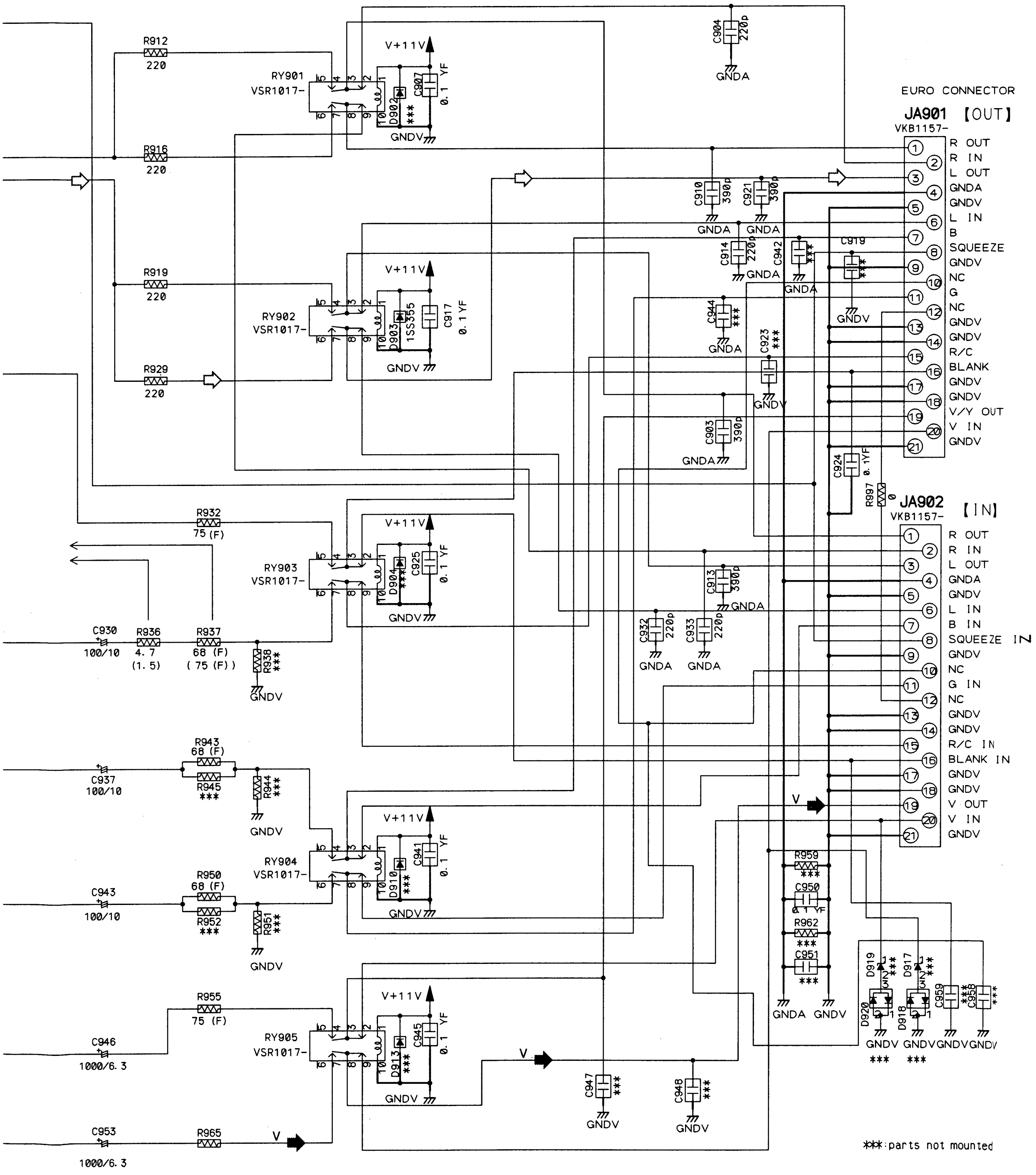
Cr/R➡ : Cr/R SIGNAL ROUTE

Y/G➡ : Y/G SIGNAL ROUTE

Cb/B➡ : Cb/B SIGNAL ROUTE

⇨ : AUDIO SIGNAL ROUTE

MODE	V	Y/C	RGB
VSEL1 (BLANK)	L	L	H
VSEL2	H	L	H



R912
220
RY901
VSR1017-
V+11V
D902
***
C907
0.1 YF
GNDV
R916
220
C904
220p
GNDA
EURO CONNECTOR
JA901 [OUT]
VKB1157-
R OUT
R IN
L OUT
GNDA
GNDV
L IN
B
SQUEEZE
GNDV
NC
G
NC
GNDV
GNDV
R/C
BLANK
GNDV
GNDV
V/Y OUT
V IN
GNDV
C910
390p
C921
390p
GNDA
GNDA
C914
220p
C942
***
C919
***
GNDA
GNDA
GNDV
R919
220
RY902
VSR1017-
D903
1SS355
C917
0.1 YF
GNDV
C944
***
GNDA
C923
***
GNDV
R929
220
C903
390p
GNDA
C924
0.1YF
R997
0
JA902 [IN]
VKB1157-
R OUT
R IN
L OUT
GNDA
GNDV
L IN
B IN
SQUEEZE IN
GNDV
NC
G IN
NC
GNDV
GNDV
R/C IN
BLANK IN
GNDV
GNDV
V OUT
V IN
GNDV
R932
75 (F)
RY903
VSR1017-
D904
***
C925
0.1 YF
GNDV
C913
390p
GNDA
C932
220p
C933
220p
GNDA
GNDA
C930
100/10
R936
4.7
(1.5)
R937
68 (F)
(75 (F))
R938
***
GNDV
R943
68 (F)
R945
***
C937
100/10
R944
***
GNDV
RY904
VSR1017-
D910
***
C941
0.1 YF
GNDV
V
R959
***
C950
0.1 YF
R962
***
C951
***
GNDA
GNDV
R950
68 (F)
R952
***
C943
100/10
R951
***
GNDV
D919
***
D917
***
D920
D918
C959
***
C958
***
GNDV
GNDV
GNDV
GNDV
***
***
R955
75 (F)
RY905
VSR1017-
V+11V
D913
***
C945
0.1 YF
GNDV
C946
1000/6.3
V
C947
***
GNDV
C948
***
GNDV
C953
1000/6.3
R965
V

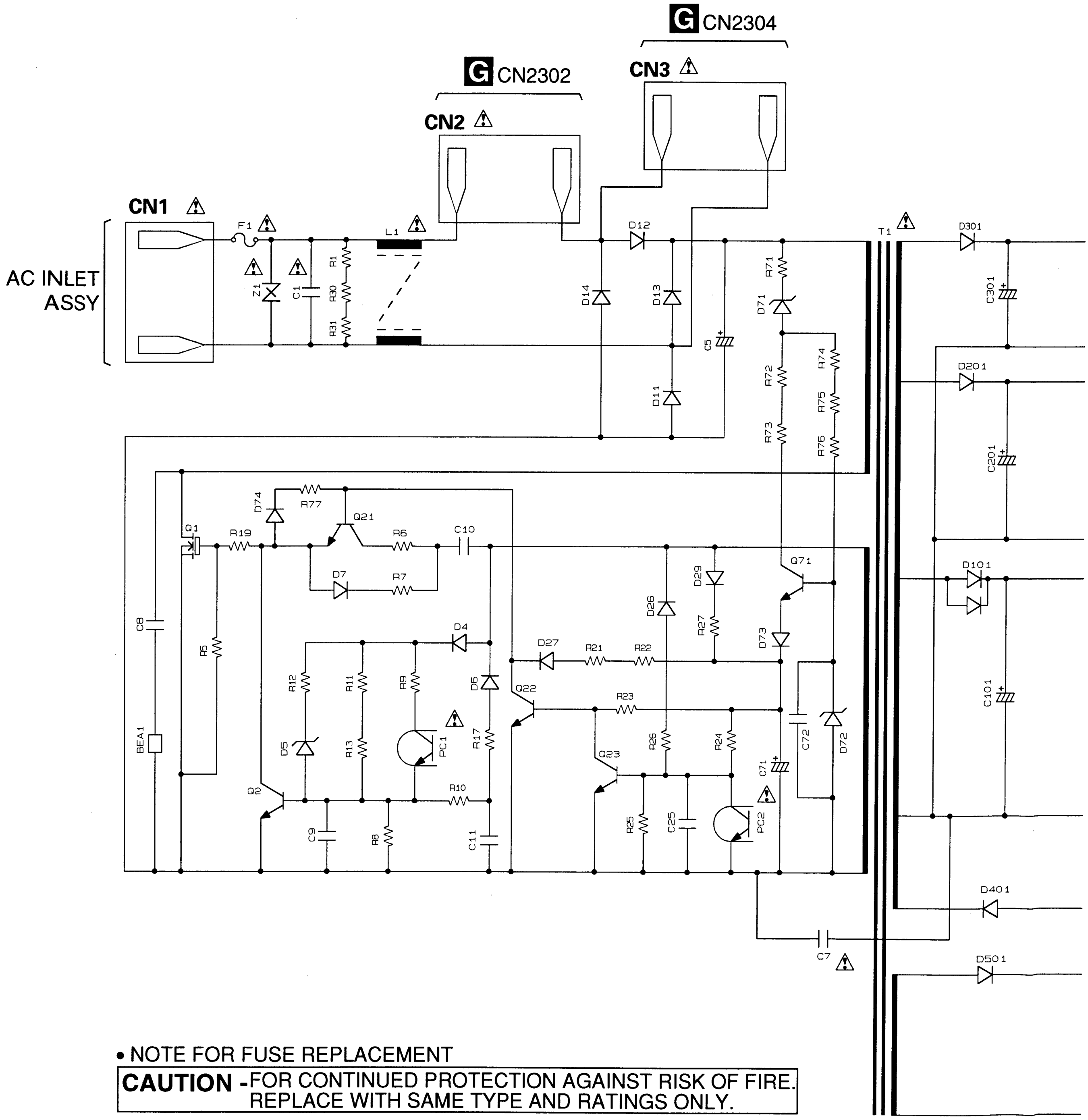
***:parts not mounted

3.13 POWER SUPPLY UNIT

H POWER SUPPLY UNIT (VWR1397)

《 NOTE OF SPARE PARTS IN POWER SUPPLY (SYPS) UNIT 》

- In case of repairing, use the described parts only to prevent an accident.
- Please write the red √ mark on the board when the primary section of POWER SUPPLY (SYPS) Unit is repaired.
- Please take care to keep the space, not touching other parts when replacing the parts.


G CN2304
G CN2302
CN3 ⚠
CN2 ⚠
CN1 ⚠
AC INLET ASSY
F1 ⚠
L1 ⚠
Z1
C1
R1
R30
R31
D12
D14
D13
D11
C5
R71
D71
R72
R73
R74
R75
R76
T1 ⚠
D301
C301
D201
C201
D101
C101
D401
D501
C7 ⚠
Q1
R19
D74
R77
Q21
R6
C10
D7
R7
C8
R5
BEA1
D4
R12
R11
R9
D6
D5
R13
PC1 ⚠
R17
Q2
R10
C9
R8
C11
D27
R21
R22
Q22
R23
D26
D29
R27
Q71
D73
R26
R24
Q23
C72
D72
C71
R25
C25
PC2 ⚠

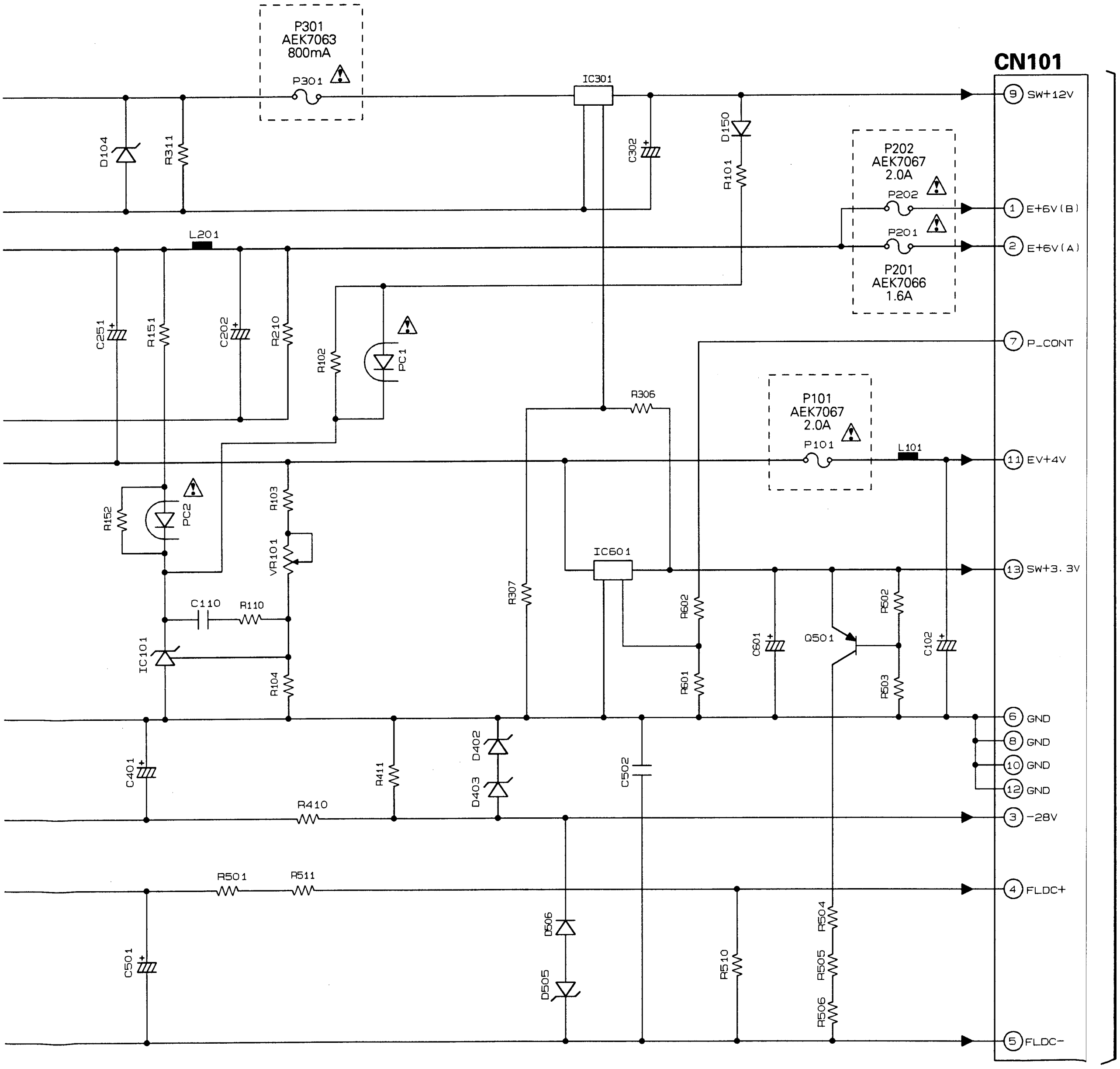
- NOTE FOR FUSE REPLACEMENT

CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.800 MFD, BY LITTELFUSE INC. FOR P301 (AEK7063).

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 49101.6 MFD, BY LITTELFUSE INC. FOR P201 (AEK7066).

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 49101.6 MFD, BY LITTELFUSE INC. FOR P101 and P202 (AEK7067).


P301
AEK7063
800mA
P301
IC301
CN101
9 SW+12V
D104
R311
C302
D150
R101
P202
AEK7067
2.0A
P202
1 E+6V(B)
P201
2 E+6V(A)
P201
AEK7066
1.6A
L201
C251
R151
C202
R210
R102
PC1
7 P_CONT
R306
P101
AEK7067
2.0A
P101
L101
11 EV+4V
R152
PC2
R103
VR101
IC601
13 SW+3.3V
C110
R110
R307
R602
R502
C601
Q501
C102
IC101
R104
R601
R503
6 GND
8 GND
10 GND
12 GND
C401
R411
D402
D403
C502
R410
3 -28V
R501
R511
4 FLDC+
D506
R504
C501
R510
R505
D505
R506
5 FLDC-
A 2/6 CN401

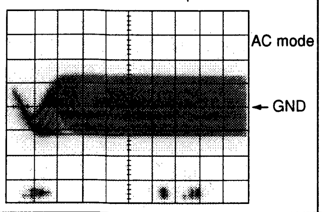
3.14 WAVEFORMS

Note : The encircled numbers denote measuring point in the schematic diagram.

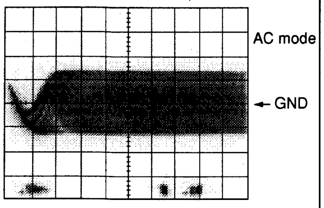
A DVDM ASSY

Measurement condition : No. 1 to 4 and 6 to 11 : MJK1, Title 1-chp 1
No. 5 : CD, ABEX-784 Track 1
No. 12 to 14 : DVD-REF-A1, T2-Chap.1
No. 15 to 20 : DVD-REF-A1, T2-Chap.19

① **IC101-pin 3 (RF)**
V: 200mV/div. H: 0.1µsec/div.

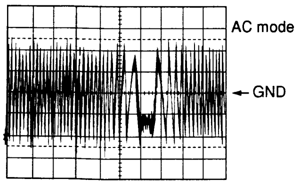


② **Q106-emitter (RFO)**
V: 500mV/div. H: 0.1µsec/div.

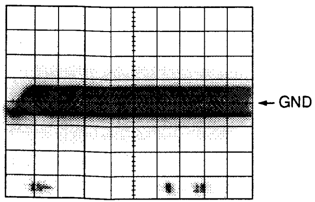


③

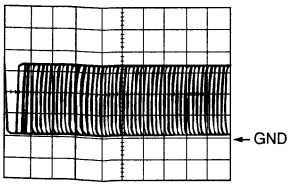
④ **IC101-pin 42 (Tracking Error) (AI-Inner Tracking Off)**
V: 500mV/div. H: 2msec/div.



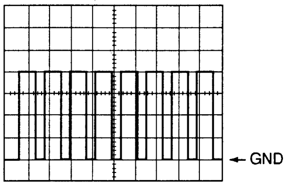
⑤ **IC201 - pin 39 (EFM before slice)**
V: 0.5V/div. H: 0.2µsec/div.



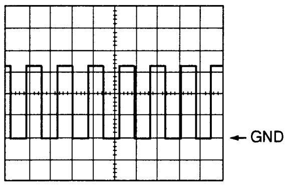
⑥ **IC201 - pin 1 (EFM)**
V: 1V/div. H: 0.2µsec/div.



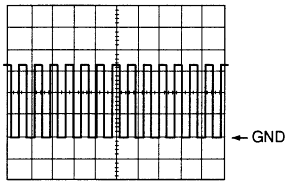
⑦ **IC251 - pin 24 (FG)**
V: 1V/div. H: 5msec/div.



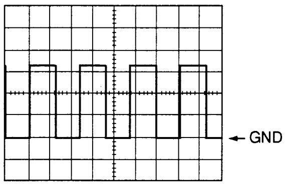
⑧ **Foot of R261 (FPWM)**
V: 1V/div. H: 10µsec/div.



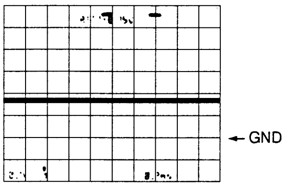
⑨ **Foot of R262 (VPWM)**
V: 1V/div. H: 10µsec/div.



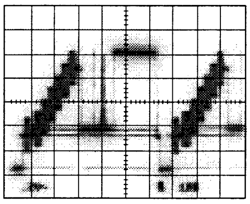
⑩ **Foot of R263 (PPWM)**
V: 1V/div. H: 0.2msec/div.



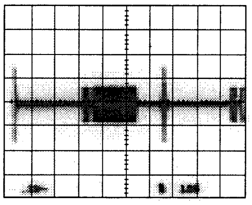
⑪ **Foot of R264 (RPWM)**
V: 1V/div. H: 5msec/div.



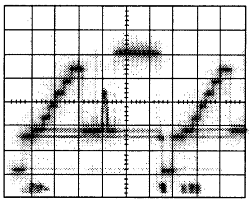
⑫ **Foot of R968 (V)**
V: 0.2V/div. H: 10µsec/div.



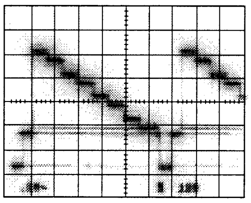
⑬ **Foot of R959 (S_C)**
V: 0.2V/div. H: 10µsec/div.



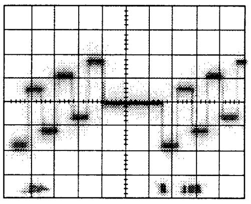
⑭ **Foot of R963 (S_Y)**
V: 0.2V/div. H: 10µsec/div.



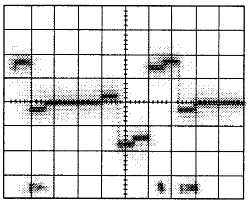
⑮ **Foot of R960 (Y/G) [interlace]**
V: 0.2V/div. H: 10µsec/div.



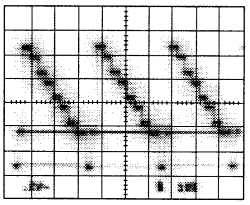
⑯ **Foot of R958 (Cb/B) [interlace]**
V: 0.2V/div. H: 10µsec/div.



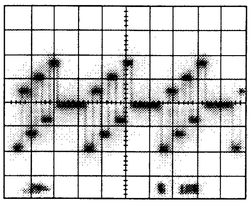
⑰ **Foot of R957 (Cr/R) [interlace]**
V: 0.2V/div. H: 10µsec/div.



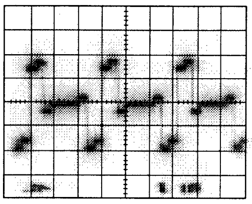
⑱ **Foot of R960 (Y/G) [progressive]**
V: 0.2V/div. H: 10µsec/div.



⑲ **Foot of R958 (Cb/B) [progressive]**
V: 0.2V/div. H: 10µsec/div.



⑳ **Foot of R957 (Cr/R) [progressive]**
V: 0.2V/div. H: 10µsec/div.

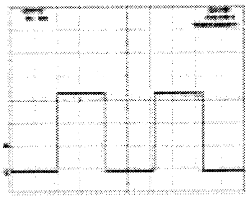


Note : The encircled numbers denote measuring point in the schematic diagram.

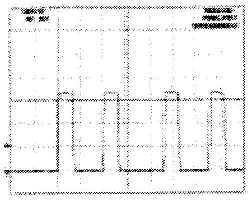
C AJKB ASSY

Measurement condition : No. 21 to 25 : DVD-REF-A1, T2-Chap.1

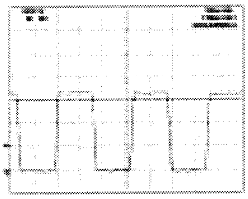
㉑ **IC301-pin 4 (LRCK)**
V: 1V/div. H: 5μsec/div.



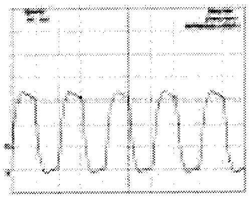
㉒ **IC301-pin 5 (DATA0)**
V: 1V/div. H: 500nsec/div.



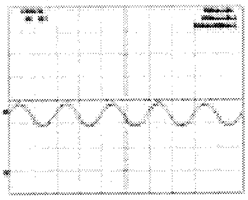
㉓ **IC301-pin 6 (BCK)**
V: 1V/div. H: 100nsec/div.



㉔ **IC301-pin 7 (PMCK)**
V: 1V/div. H: 20nsec/div.



㉕ **IC302 - pin 1 (Analog OUT)**
V: 1V/div. H: 500μsec/div.



1 2 3 4

A

B

C

D

E

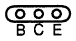
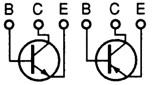
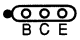
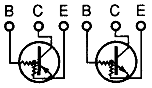
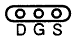
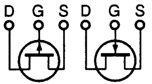
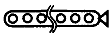
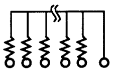
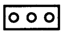
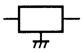
F

4. PCB CONNECTION DIAGRAM

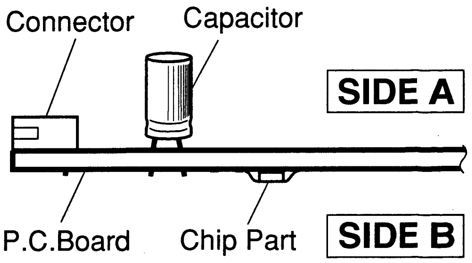
4.1 LOAB ASSY

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

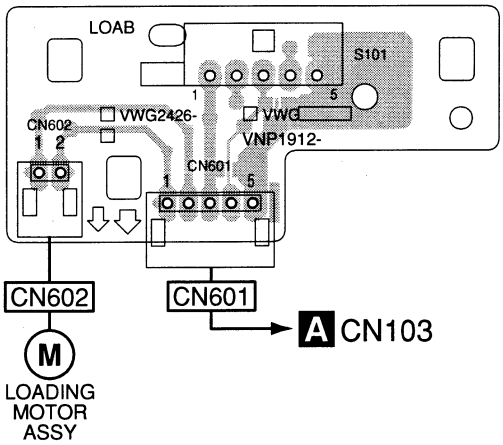
3. The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

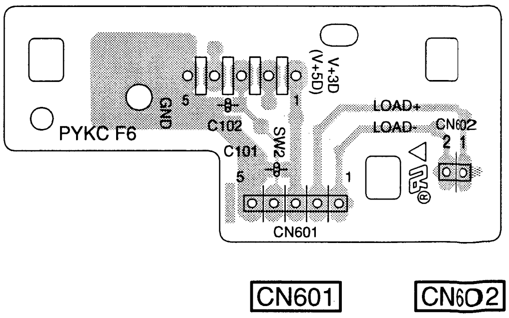

Connector
Capacitor
SIDE A
P.C.Board
Chip Part
SIDE B

SIDE A

SIDE B

K LOAB ASSY
(VNP1912-A)

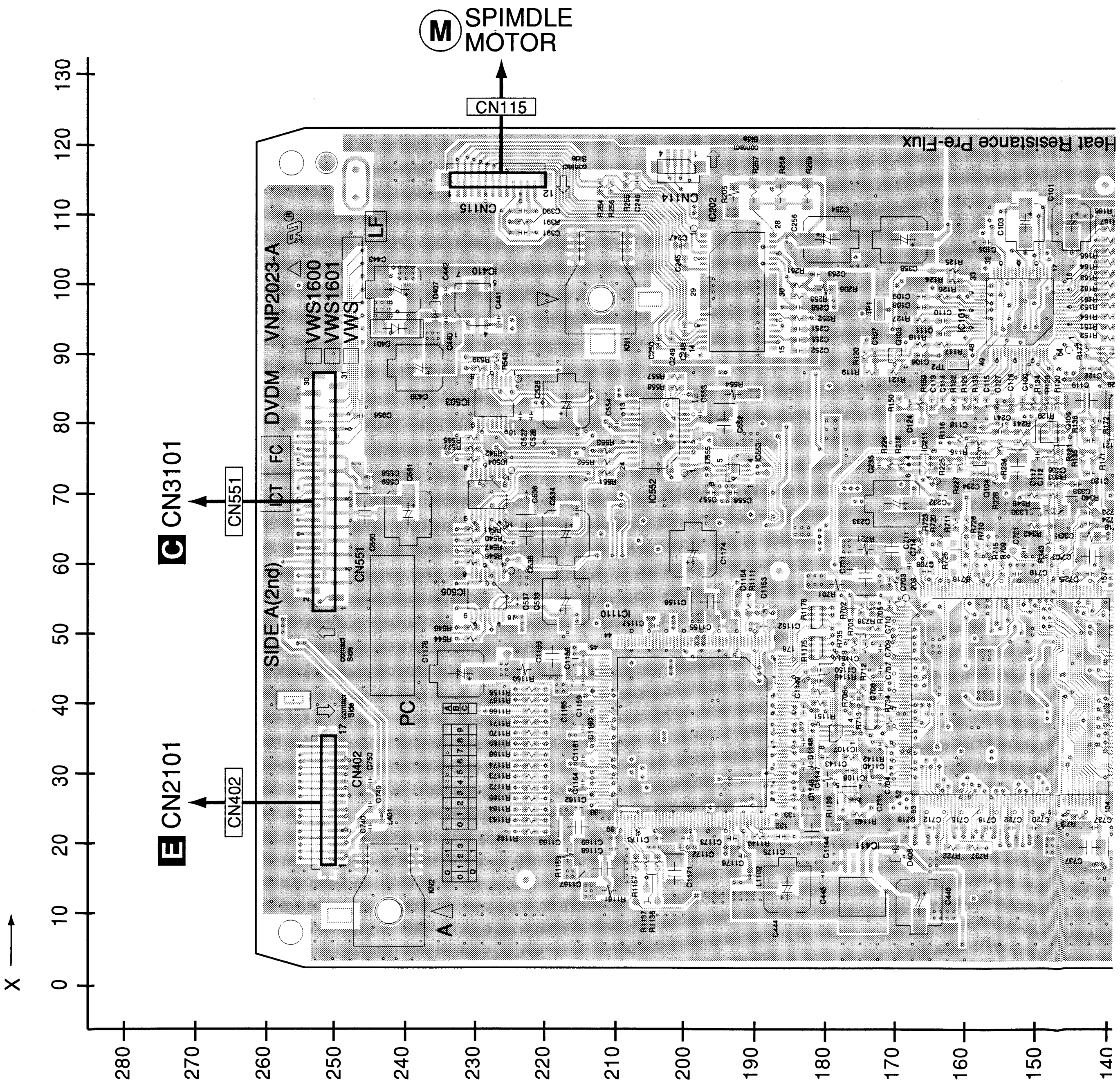

LOAB
S101
1
5
CN602
1 2
VWG2426-
VWG
VNP1912-
CN601
1
5
CN602
CN601
A CN103
M
LOADING MOTOR ASSY


V+3D
(V+5D)
GND
5
1
C102
C101
SW2
PYKC F6
LOAD+
LOAD-
CN602
2 1
5
1
CN601
CN601
CN602

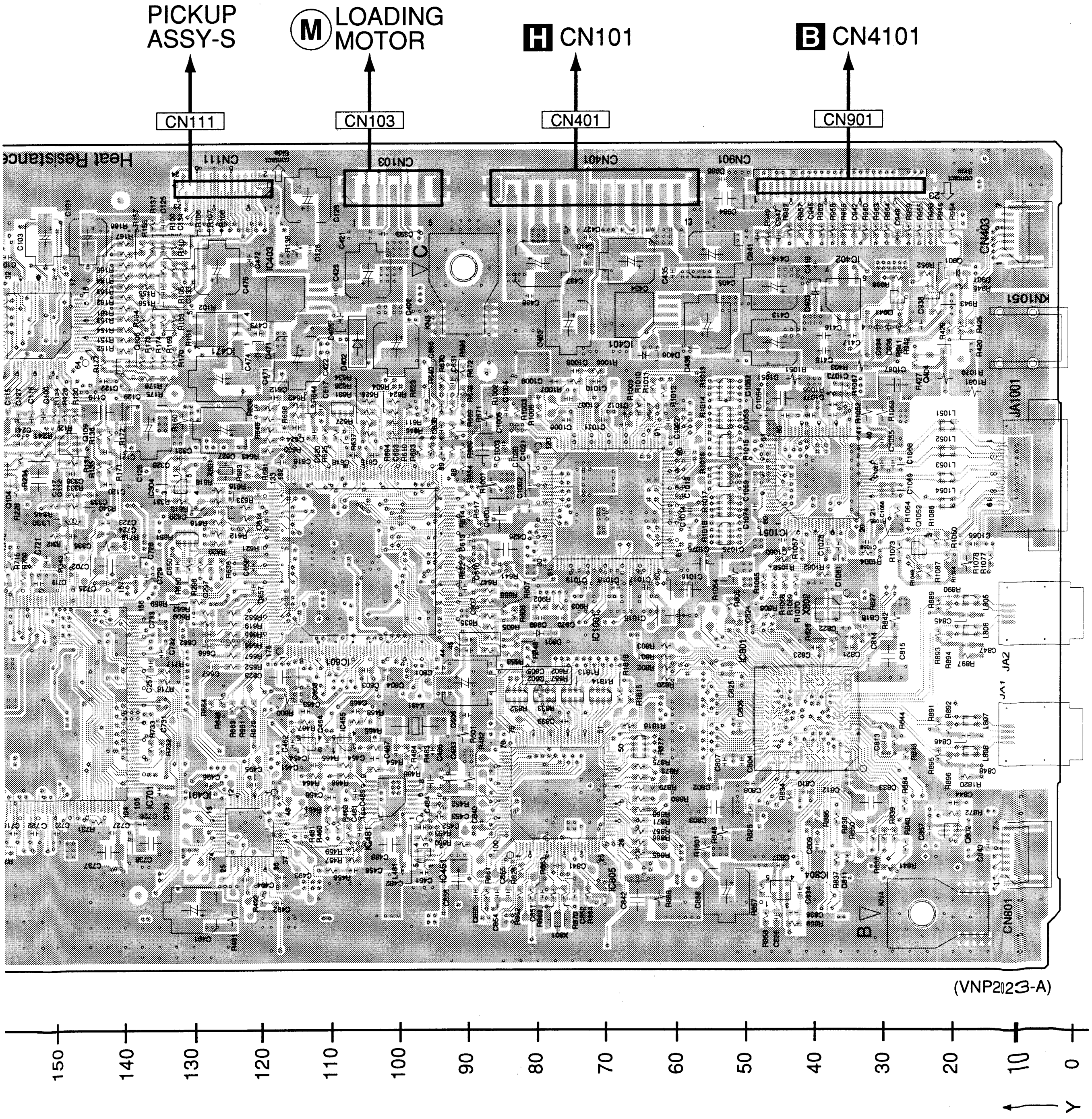
4.2 DVDM ASSY

SIDE A

A DVDM ASSY


M
SPIMDLE
MOTOR
CN115
Heat Resistance Pre-Flux
VNP2023-A
VWS1600
VWS1601
VWS
DVDM
LF
FC
ICT
CN551
C CN3101
SIDE A(2nd)
PC
CN402
E CN2101
X
0
10
20
30
40
50
60
70
80
90
100
110
120
130
280
270
260
250
240
230
220
210
200
190
180
170
160
150
140

SIDE A


PICKUP
ASSY-S
M
LOADING
MOTOR
H CN101
B CN4101
CN111
CN103
CN401
CN901
Heat Resistance
CN403
KN1051
JA1001
JA2
JA1
CN801
IC401
IC402
IC403
IC471
IC601
IC1001
IC801
IC701
IC491
IC451
IC481
IC805
IC804
C
B
(VNP2023-A)
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y

A
B
C
D
E
F

A **SIDE B**

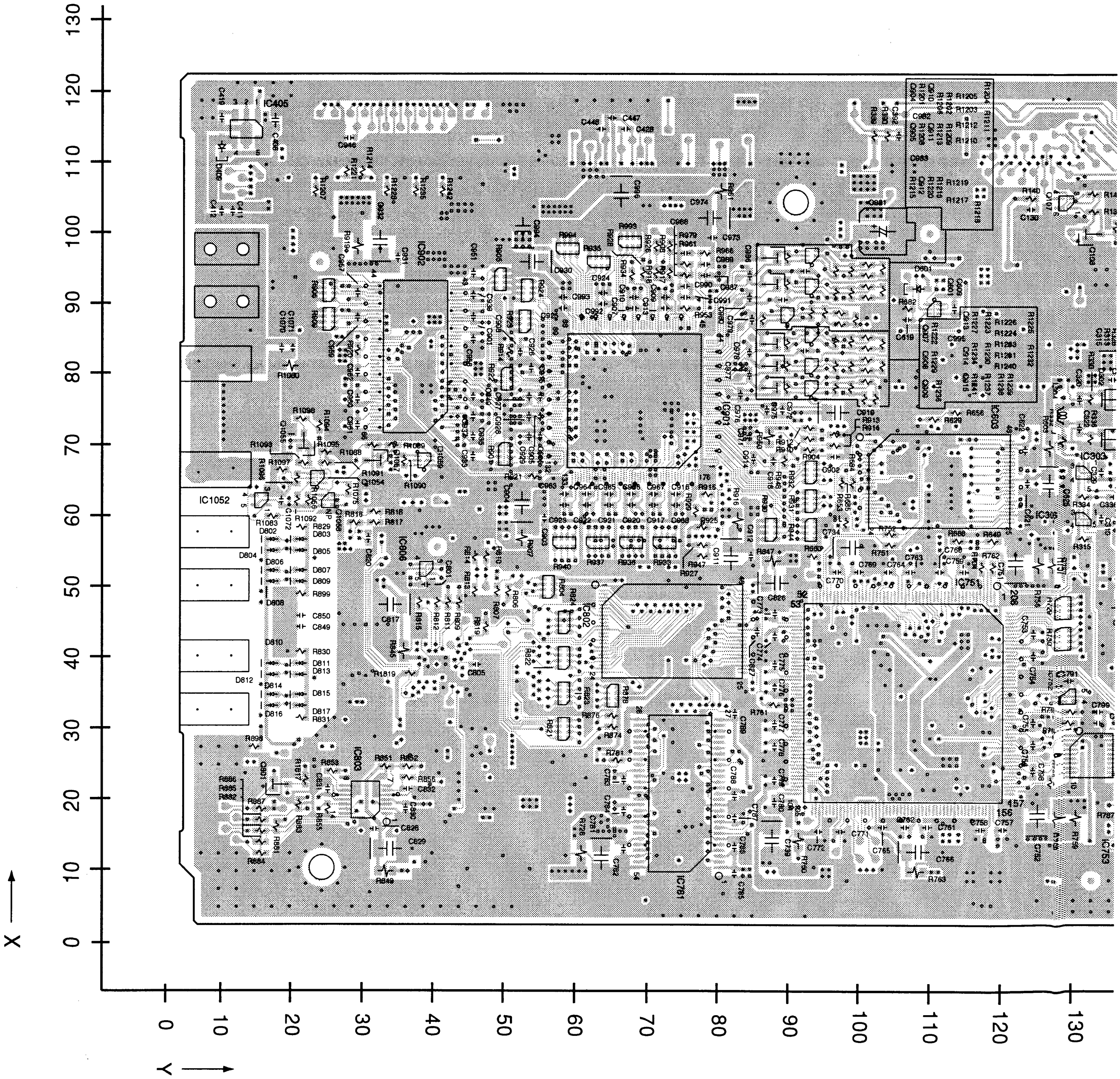
A DVDM ASSY

B

C

D

E


130
120
110
100
90
80
70
60
50
40
30
20
10
0
X
0
10
20
30
40
50
60
70
80
90
100
110
120
130
Y
IC405
IC902
IC901
IC1052
IC806
IC802
IC803
IC761
IC751
IC903
IC303
IC753
C447
C446
C428
C973
C974
C981
R1219
R1217
R1090
R1091
R1095
R1096
R1097
R1083
R1092
R1060
D802
D803
D804
D805
D806
D807
D808
D809
D810
D811
D812
D813
D814
D815
D816
D817
R829
R830
R831
R899
C850
C849
R898
R849
C829
C826
R874
R875
R781
C757
C765
C766
R763
R787
157
156
52
53

F

A

SIDE B

A

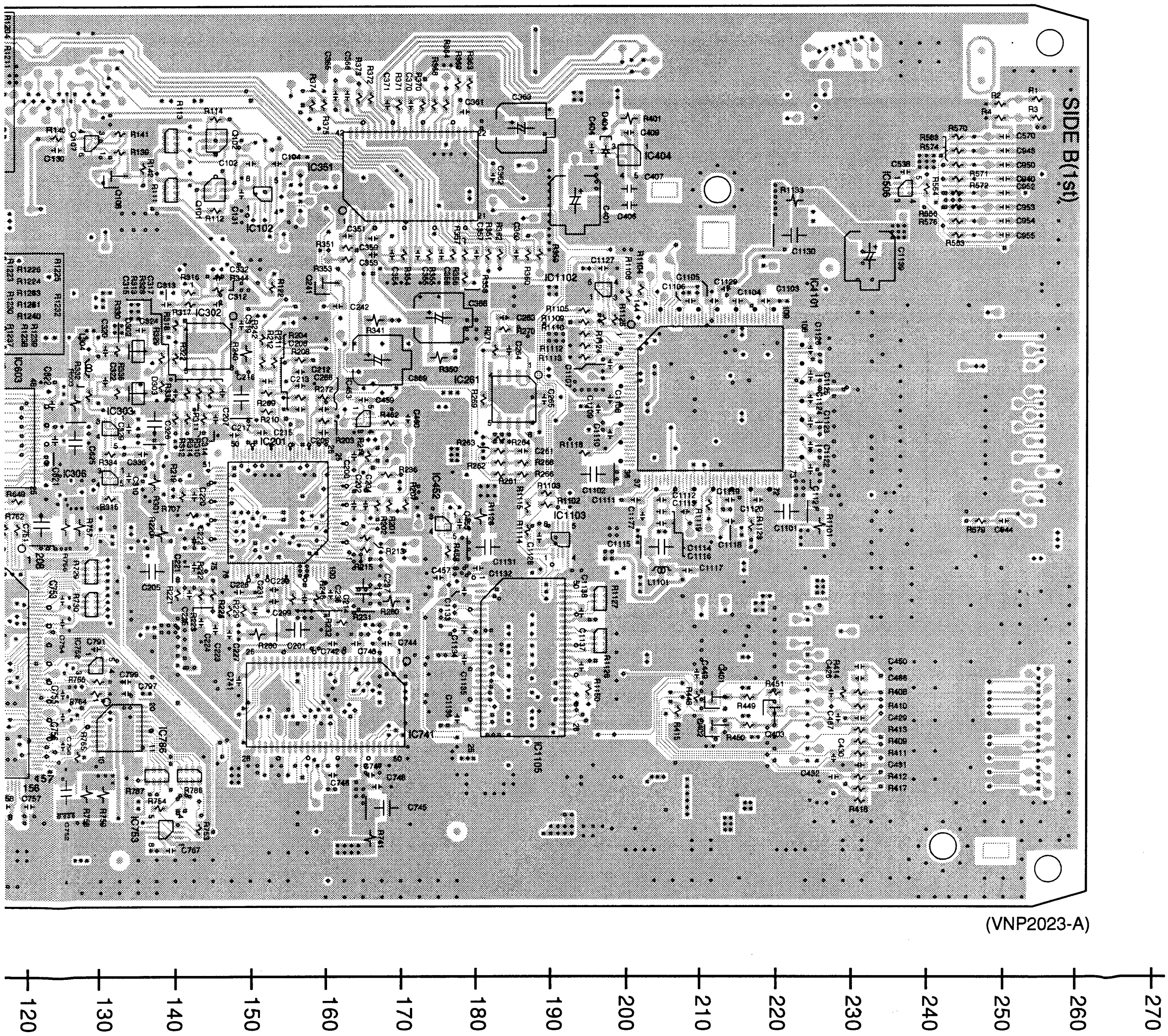
B

C

D

E

F

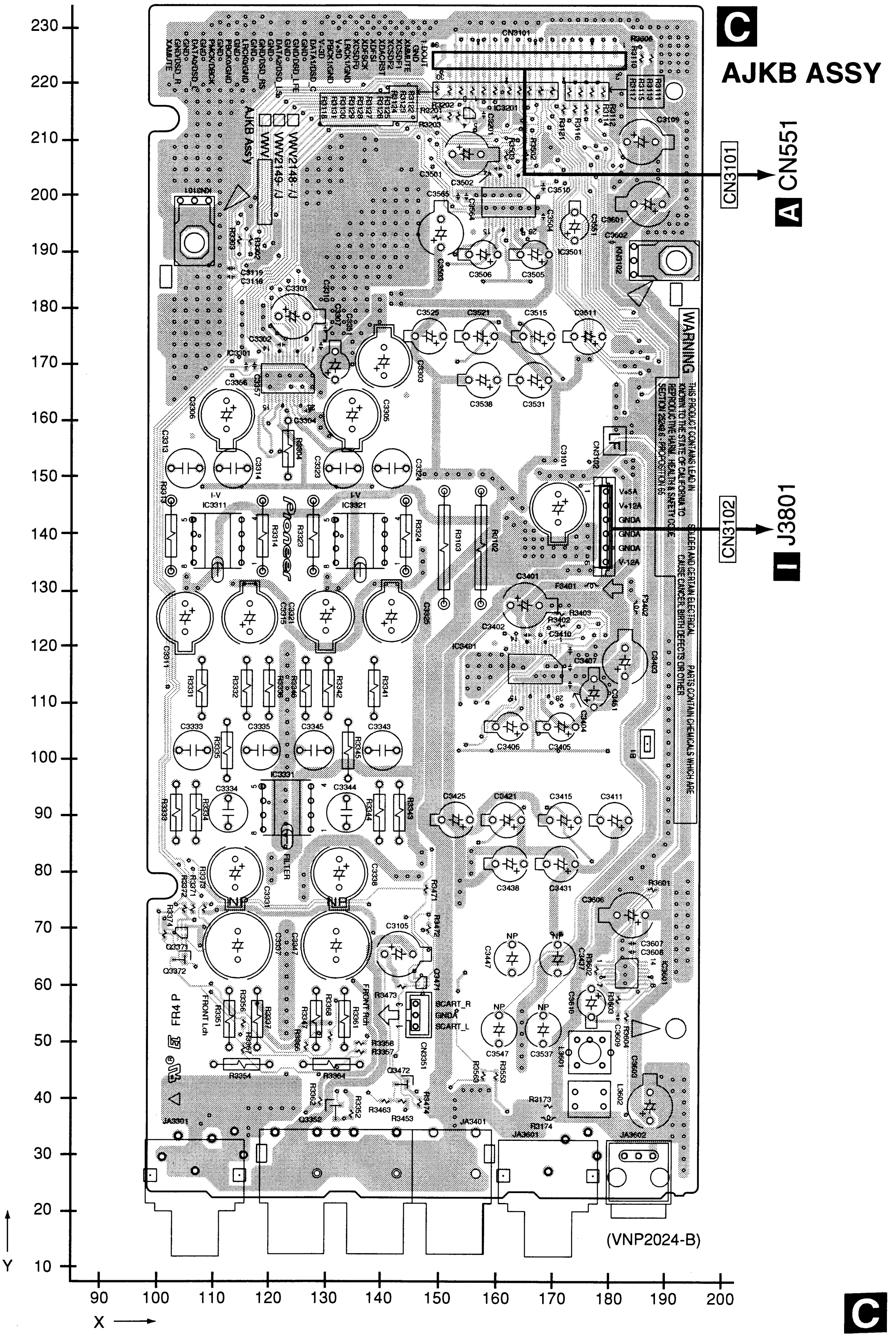

SIDE B(1st)
IC351
IC102
IC302
IC303
IC306
IC201
IC261
IC452
IC1102
IC1103
IC1105
IC4101
IC741
IC404
IC506
IC786
IC783
IC603
L1101
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270

(VNP2023-A)

4.3 AJKB ASSY

SIDE A

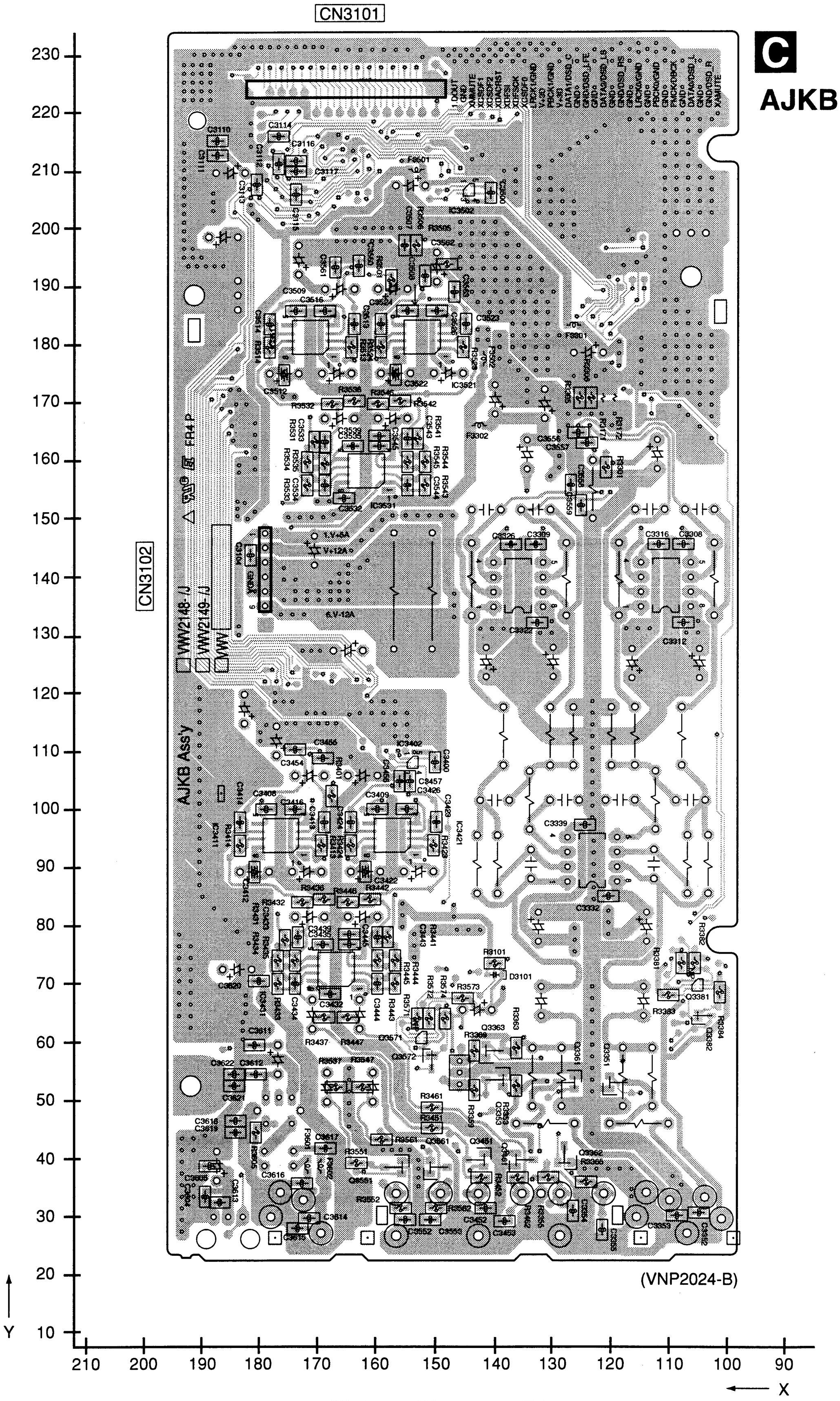
SIDE A


C
AJKB ASSY
CN3101
A CN551
CN3102
I J3801
CN3101
CN3102
WARNING
THIS PRODUCT CONTAINS LEAD IN SOLDER AND CERTAIN ELECTRICAL PARTS CONTAIN CHEMICALS WHICH ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. HEALTH & SAFETY CODE SECTION 25249.6 - PROPOSITION 65
AJKB ASSY
VWV2148-/J
VWV2149-/J
VWV
V+5A
V+12A
GNDA
GNDA
GNDA
V-12A
SCART_R
GNDA
SCART_L
CN3351
FRONT Lch
FRONT Rch
FR4 P
FILTER
IC3311
IC3321
IC3331
IC3401
IC3501
IC3201
IC3301
JA3301
JA3401
JA3601
JA3602
(VNP2024-B)
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
Y
90
100
110
120
130
140
150
160
170
180
190
200
X

SIDE B

SIDE B

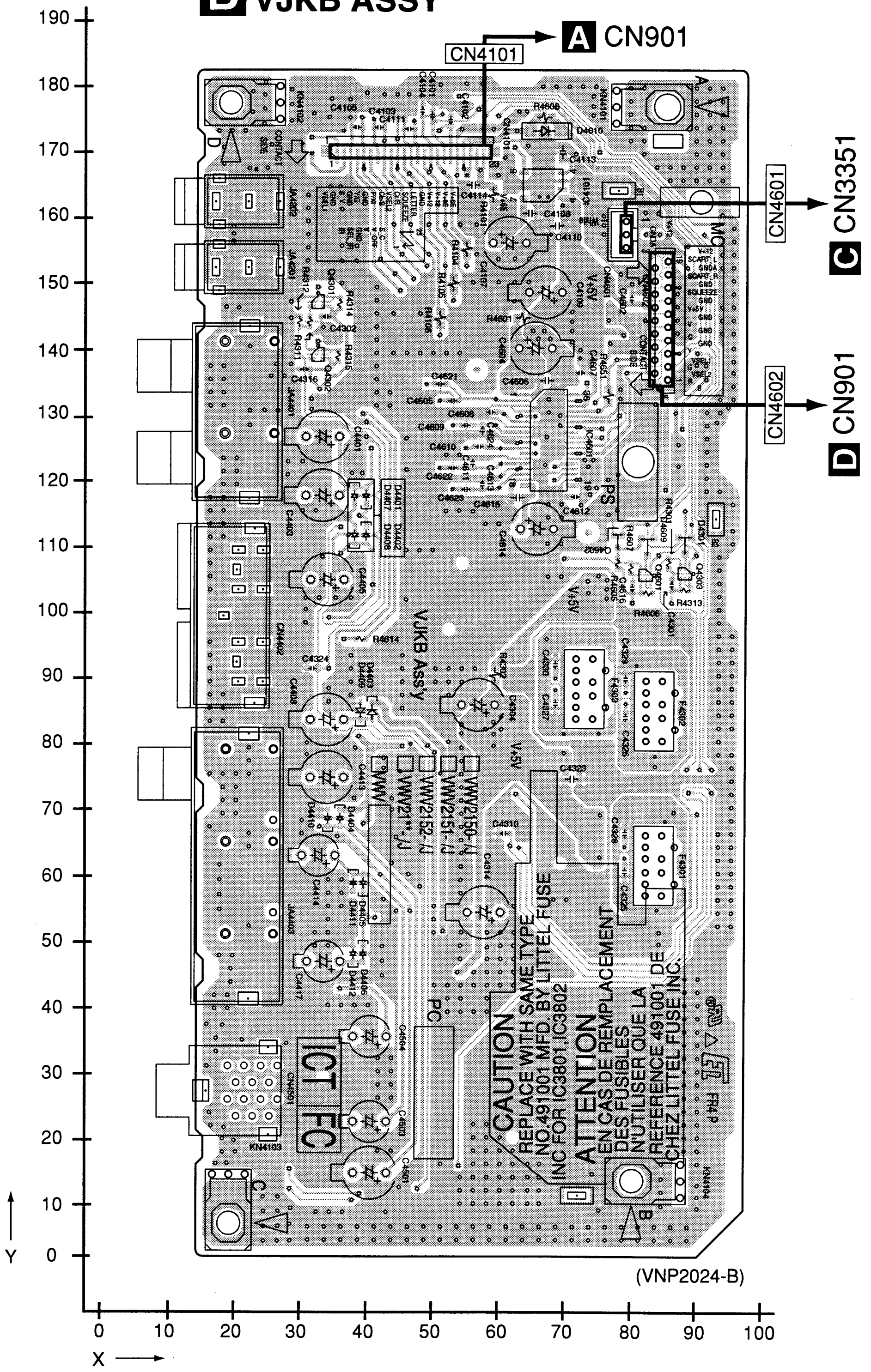
C AJKB ASSY


CN3101
CN3102
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
Y
210
200
190
180
170
160
150
140
130
120
110
100
90
X
(VNP2024-B)
AJKB Ass'y
VWV2148-/J
VWV2149-/J
VWV
FB4 P
IC3502
IC3521
IC3531
IC3402
IC3411
IC3421
F3501
F3301
F3302
F3601
D3101
Q3381
Q3363
Q3361
Q3351
Q3362
Q3461
Q3551
Q3561
Q3571
Q3572
C3110
C3114
C3116
C3117
C3118
C3112
C3113
C3500
C3507
C3508
C3509
C3516
C3522
C3523
C3532
C3326
C3309
C3316
C3308
C3322
C3312
C3339
C3332
C3400
C3408
C3409
C3416
C3426
C3454
C3455
C3457
C3422
C3432
C3620
C3611
C3612
C3621
C3622
C3616
C3617
C3614
C3615
C3552
C3550
C3452
C3353
R3532
R3536
R3542
R3101
R3573
R3363
R3369
R3382
R3383
R3384
R3432
R3436
R3437
R3442
R3446
R3447
R3461
R3537
R3547
R3551
R3552
R3561
R3562
R3366
1.V+5A
V+12A
6.V-12A
I_DOUT
GND
XAMUTE

4.4 VJKB ASSY

SIDE A **SIDE A**

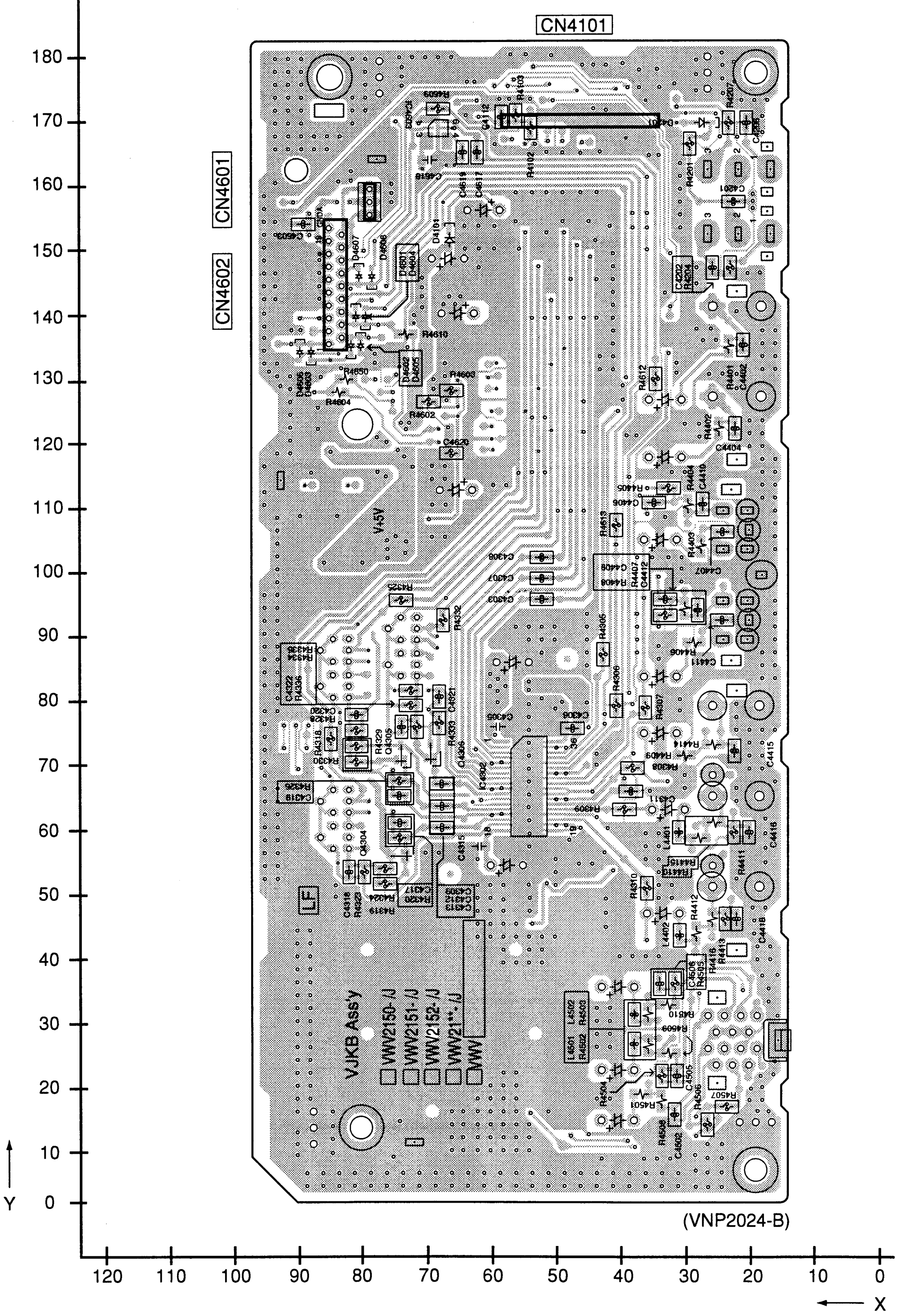
B VJKB ASSY


CN4101
A CN901
CN4601
C CN3351
CN4602
D CN901
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
0
10
20
30
40
50
60
70
80
90
100
X
(VNP2024-B)
VJKB ASSY
ICT
FC
PC
VWV2150-/J
VWV2151-/J
VWV2152-/J
VWV21**-/J
VWV
CAUTION
REPLACE WITH SAME TYPE
NO.491001 MFD. BY LITTEL FUSE
INC FOR IC3801,IC3802
ATTENTION
EN CAS DE REMPLACEMENT
DES FUSIBLES
N'UTILISER QUE LA
REFERENCE 491001 DE
CHEZ LITTEL FUSE INC.
JA4401
JA4402
JA4403
CN4402
CN4501
KN4101
KN4102
KN4103
KN4104
F4301
F4302
C4401
C4403
C4408
C4410
C4414
C4417
C4501
C4503
C4504
C4109
C4110
C4113
C4323
C4324
C4606
C4612
C4614
R4601
R4606
R4313
R4314
D4616
V+5V

A

SIDE B **SIDE B**

B VJKB ASSY


CN4101
CN4601
CN4602
V+5V
LF
VJKB Ass'y
☐ VWV2150-/J
☐ VWV2151-/J
☐ VWV2152-/J
☐ VWV21**-/J
☐ VWV
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
120
110
100
90
80
70
60
50
40
30
20
10
0
X

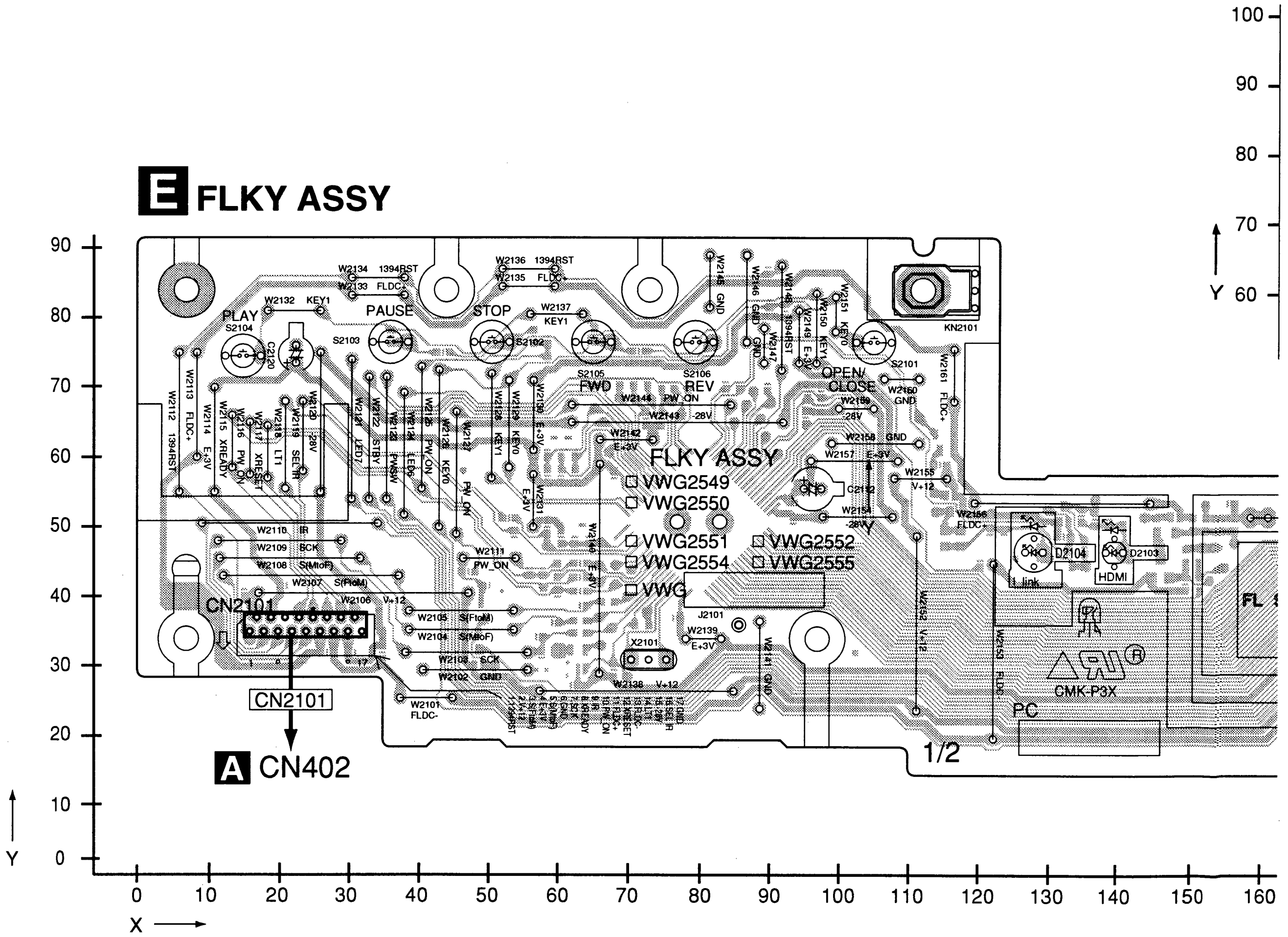
(VNP2024-B)

B C D E F

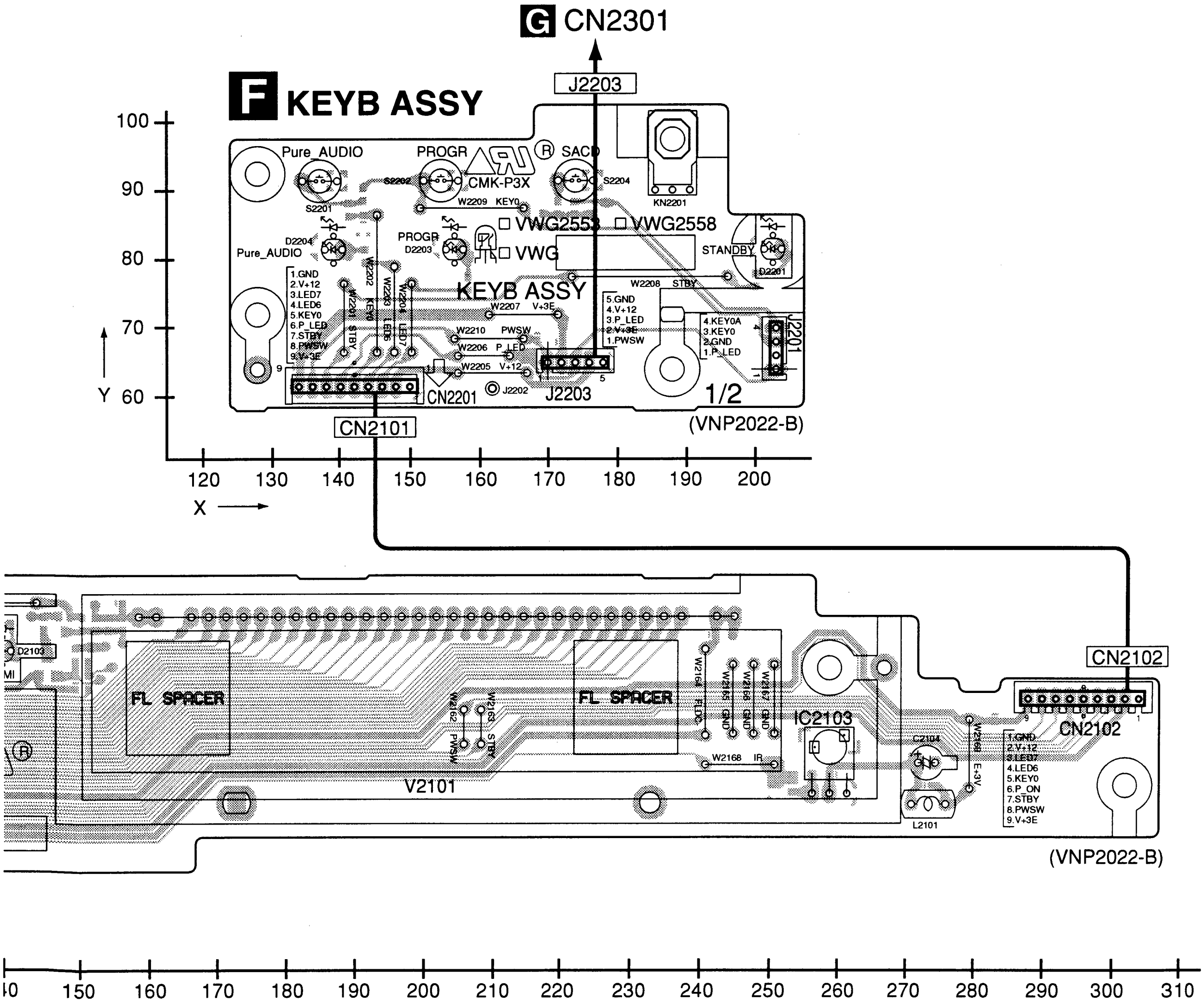
B **B**

4.5 FLKY and KEYB ASSYS

SIDE A

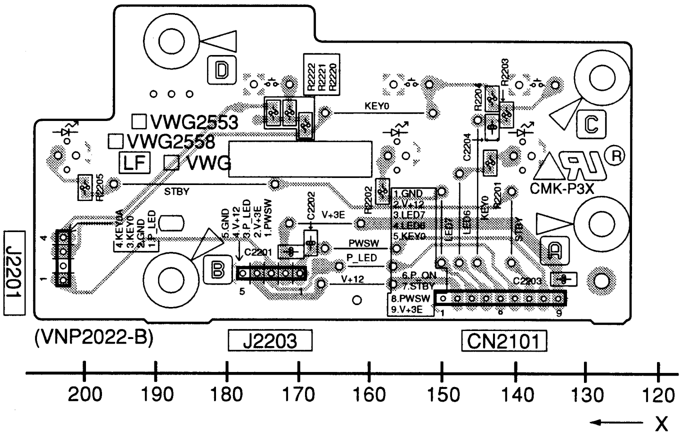

E FLKY ASSY
FLKY ASSY
☐ VWG2549
☐ VWG2550
☐ VWG2551
☐ VWG2552
☐ VWG2554
☐ VWG2555
☐ VWG
PLAY
S2104
PAUSE
S2103
STOP
S2102
S2105
FWD
S2106
REV
OPEN/CLOSE
S2101
KN2101
CN2101
CN2101
A CN402
J2101
X2101
C2120
C2112
D2104
D2103
i.link
HDMI
CMK-P3X
PC
1/2
FL
W2101 FLDC-
W2102 GND
W2103 SCK
W2104 S(MtoF)
W2105 S(FtoM)
W2106 V+12
W2107 S(FtoM)
W2108 S(MtoF)
W2109 SCK
W2110 IR
W2111 PW_ON
W2112 1394RST
W2113 FLDC+
W2114 E+3V
W2115 XREADY
W2132 KEY1
W2133 FLDC+
W2134 1394RST
W2135 FLDC+
W2136 1394RST
W2137 KEY1
W2138 V+12
W2139 E+3V
W2142 E+3V
W2143 -28V
W2144 PW_ON
W2145 GND
W2152 V+12
W2154 -28V
W2155 V+12
W2156 FLDC+
W2157 E+3V
W2158 GND
W2159 -28V
W2160 GND
W2161 FLDC+
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160
X
0 10 20 30 40 50 60 70 80 90 100
Y

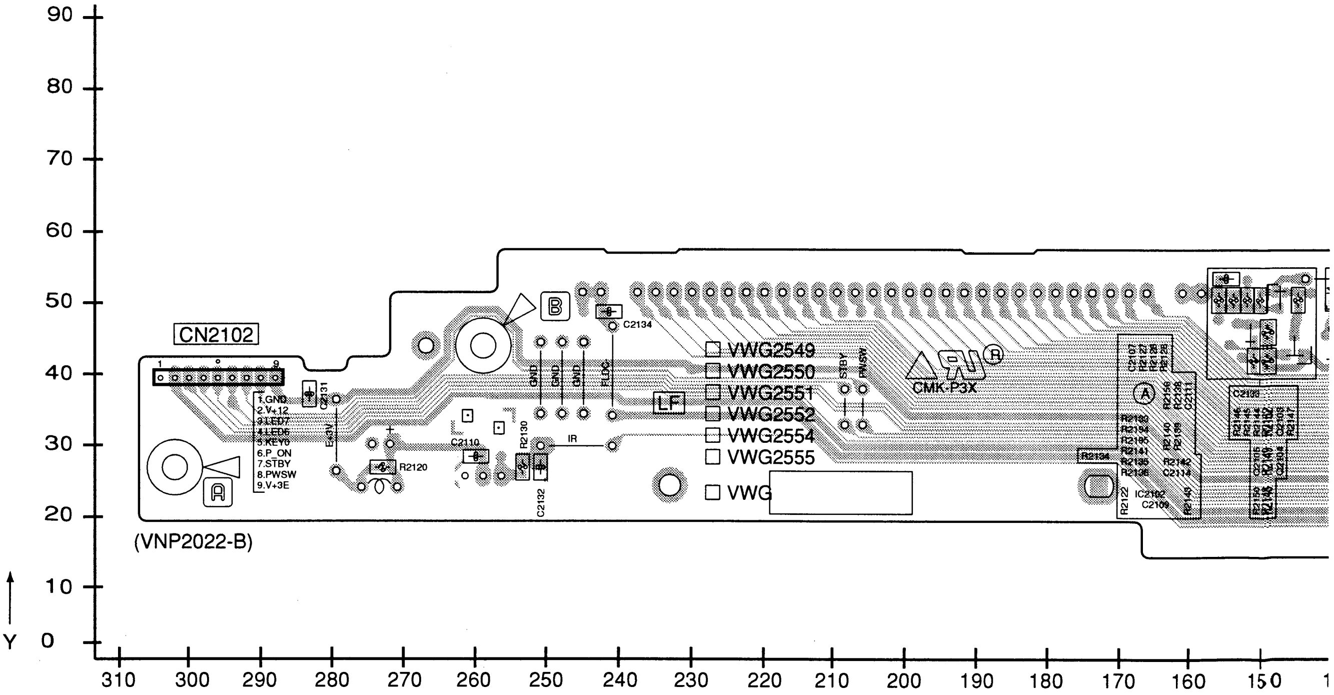
SIDE A


G CN2301
J2203
F KEYB ASSY
Pure_AUDIO
PROGR
SACD
S2201
S2202
S2204
CMK-P3X
KN2201
W2209 KEY0
VWG2553
VWG2558
VWG
D2204
Pure_AUDIO
PROGR
D2203
STANDBY
D2201
1.GND
2.V+12
3.LED7
4.LED6
5.KEY0
6.P_LED
7.STBY
8.PWSW
9.V+3E
W2201 STBY
W2202 KEY0
W2203 LED6
W2204 LED7
KEYB ASSY
W2207 V+3E
W2208 STBY
W2210 PWSW
W2206 P_LED
W2205 V+12
5.GND
4.V+12
3.P_LED
2.V+3E
1.PWSW
4.KEY0A
3.KEY0
2.GND
1.P_LED
J2201
CN2201
J2202
J2203
1/2
(VNP2022-B)
CN2101
100
90
80
70
60
Y
120
130
140
150
160
170
180
190
200
X
D2103
FL SPACER
W2162 PWSW
W2163 STBY
FL SPACER
W2164 FLDC
W2165 GND
W2166 GND
W2167 GND
IC2103
W2168 IR
V2101
C2104
W2169 E+3V
L2101
CN2102
CN2102
1.GND
2.V+12
3.LED7
4.LED6
5.KEY0
6.P_ON
7.STBY
8.PWSW
9.V+3E
(VNP2022-B)
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310

SIDE B

F KEYB ASSY


D
C
B
D
R2222
R2221
R2220
R2203
R2204
KEY0
☐ VWG2553
☐ VWG2558
LF
☐ VWG
R2205
STBY
C2204
R2201
R2202
CMK-P3X
4.KEY0A
3.KEY0
2.GND
1.P_LED
5.GND
4.V+12
3.P_LED
2.V+3E
1.PWSW
C2202
V+3E
C2201
PWSW
P_LED
V+12
1.GND
2.V+12
3.LED7
4.LED6
5.KEY0
6.P_ON
7.STBY
8.PWSW
9.V+3E
LED7
LED6
KEY0
STBY
C2203
J2201
(VNP2022-B)
J2203
CN2101
200
190
180
170
160
150
140
130
120
X


90
80
70
60
50
40
30
20
10
Y 0
CN2102
1.GND
2.V+12
3.LED7
4.LED6
5.KEY0
6.P_ON
7.STBY
8.PWSW
9.V+3E
C2131
E+3V
R2120
C2110
R2130
C2132
IR
GND
GND
GND
FLDC
C2134
B
A
LF
☐ VWG2549
☐ VWG2550
☐ VWG2551
☐ VWG2552
☐ VWG2554
☐ VWG2555
☐ VWG
STBY
PWSW
CMK-P3X
R2134
IC2102
C2109
R2122
C2133
(VNP2022-B)
310
300
290
280
270
260
250
240
230
220
210
200
190
180
170
160
150

SIDE B

A

B

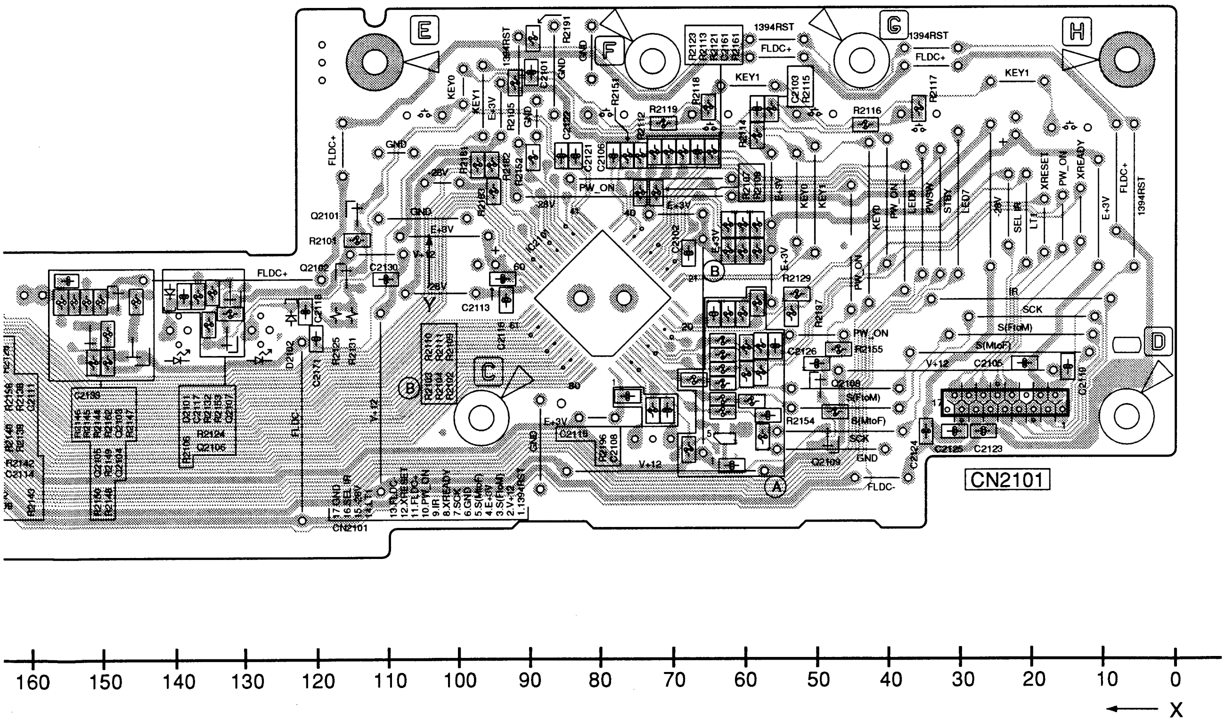
C

D

E

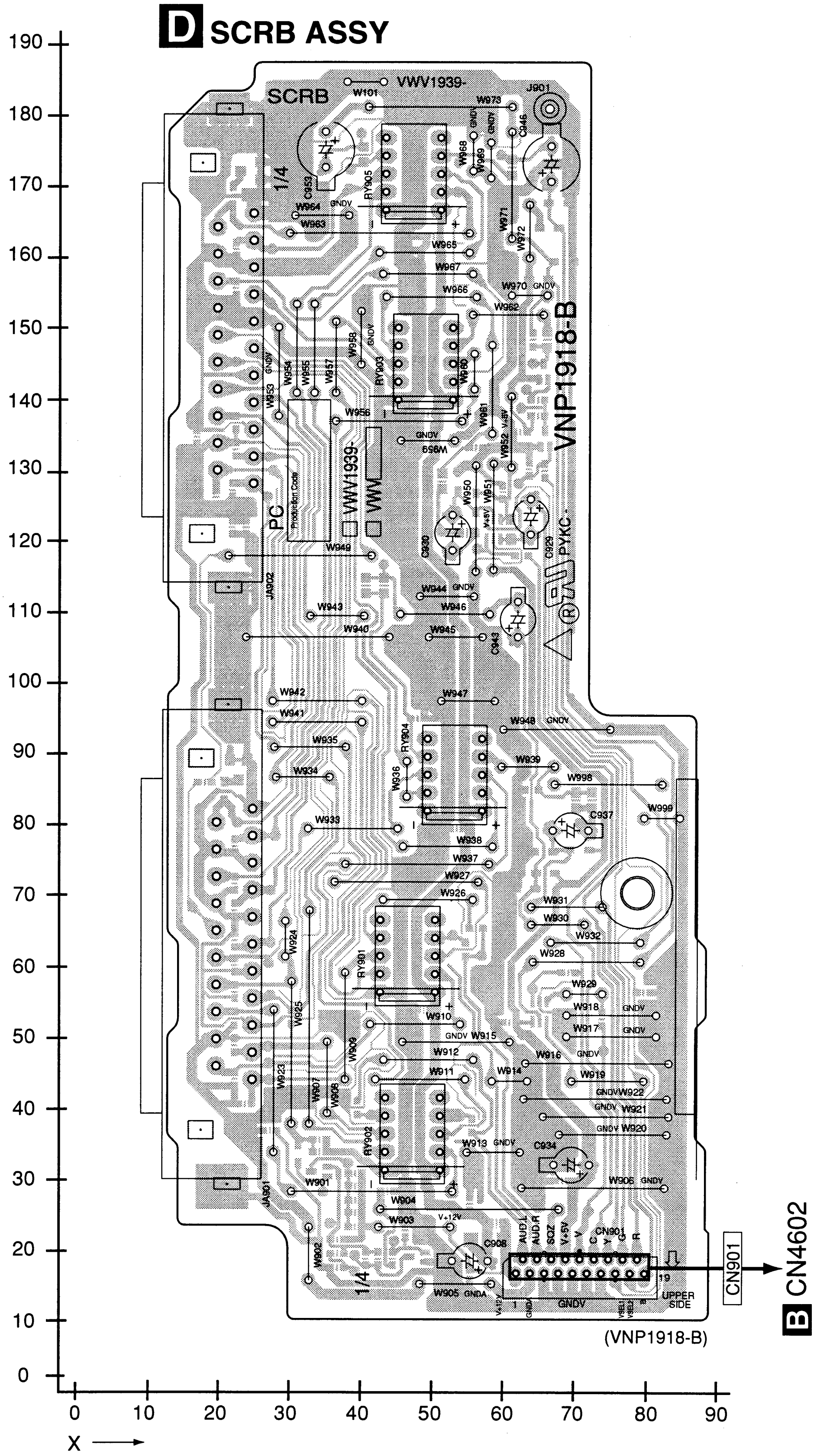
F

E FLKY ASSY


E
F
G
H
C
D
B
A
Y
1394RST
FLDC+
FLDC-
KEY0
KEY1
GND
E+3V
E+8V
-28V
PW_ON
XRESET
XREADY
SEL IR
LED7
LED8
STBY
IR
SCK
S(FtoM)
S(MtoF)
V+12
V-12
CN2101
17.GND
16.SEL IR
15.-28V
14.LT
13.FLDC-
12.XRESET
11.FLDC+
10.PW_ON
9.IR
8.XREADY
7.SCK
6.GND
5.S(MtoF)
4.E+3V
3.S(FtoM)
2.V+12
1.1394RST
IC2101
Q2101
Q2102
Q2106
Q2109
R2101
R2105
R2112
R2113
R2114
R2115
R2116
R2117
R2118
R2119
R2121
R2123
R2125
R2129
R2131
R2151
R2154
R2155
R2187
R2191
C2101
C2102
C2103
C2105
C2106
C2108
C2113
C2115
C2116
C2118
C2119
C2121
C2122
C2123
C2124
C2125
C2126
C2130
D2102
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
X

4.6 SCRB ASSY

SIDE A **SIDE A**

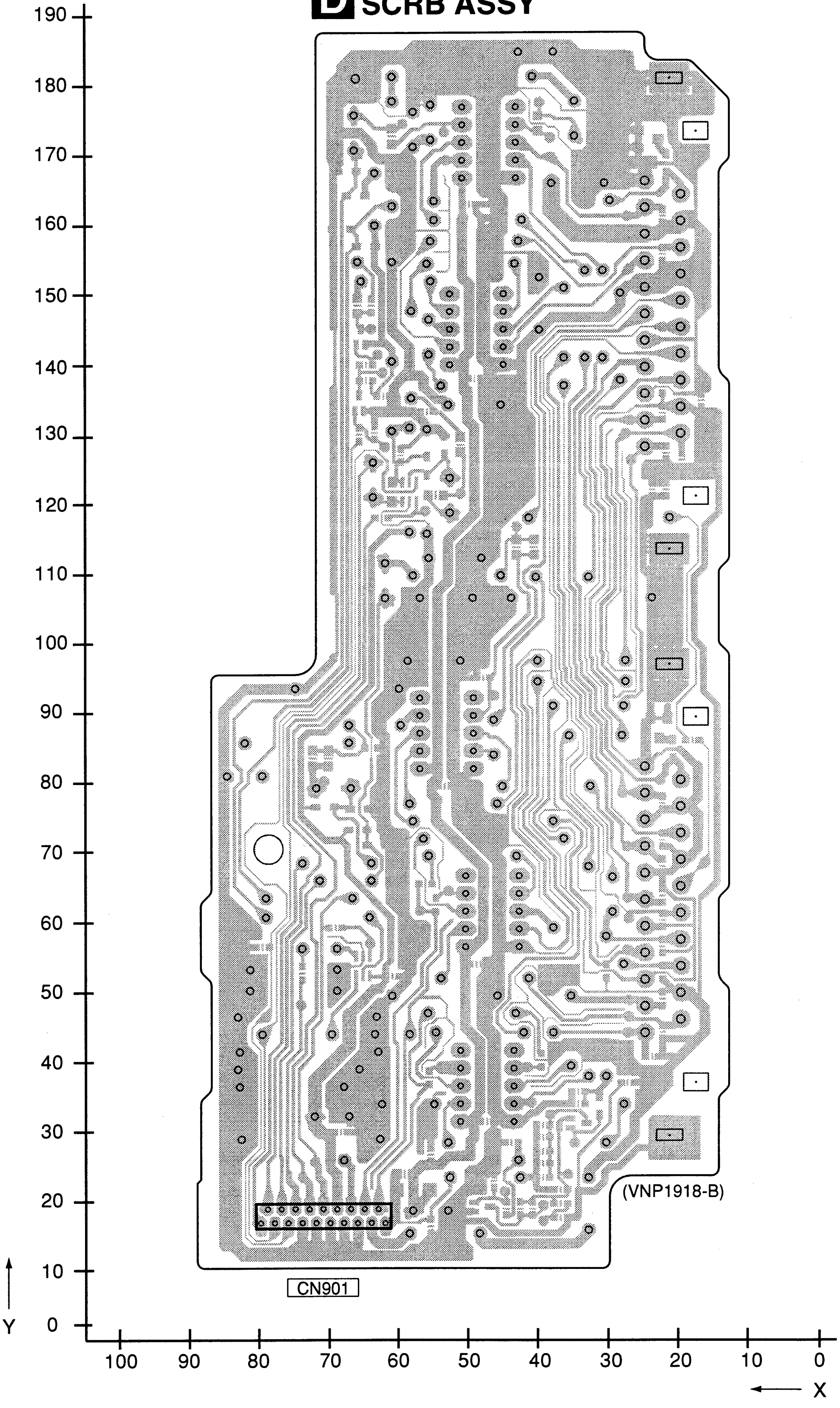

D SCRB ASSY
SCRB
VWV1939-
VNP1918-B
PYKC-
PC
Production Code
VWV1939-
VWV
1/4
J901
JA902
JA901
RY901
RY902
RY903
RY904
RY905
C908
C929
C930
C934
C937
C943
C946
C953
W101
W901
W902
W903
W904
W905
W906
W907
W908
W909
W910
W911
W912
W913
W914
W915
W916
W917
W918
W919
W920
W921
W922
W923
W924
W925
W926
W927
W928
W929
W930
W931
W932
W933
W934
W935
W936
W937
W938
W939
W940
W941
W942
W943
W944
W945
W946
W947
W948
W949
W950
W951
W952
W953
W954
W955
W956
W957
W958
W959
W960
W961
W962
W963
W964
W965
W966
W967
W968
W969
W970
W971
W972
W973
W998
W999
GNDV
GNDA
V+12V
V+5V
AUD.L
AUD.R
SOZ
V
C
Y
G
B
R
VSEL1
VSEL2
CN901
1
19
UPPER SIDE
(VNP1918-B)
CN901
CN4602
B
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
0
10
20
30
40
50
60
70
80
90
X

D **D**

SIDE B

D SCRB ASSY

SIDE B


190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
100
90
80
70
60
50
40
30
20
10
0
X
(VNP1918-B)
CN901

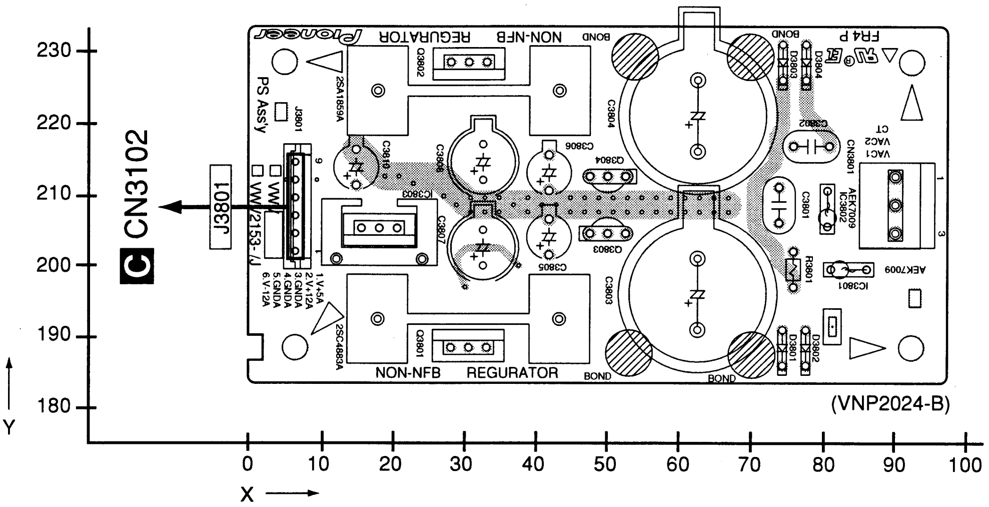
D

D

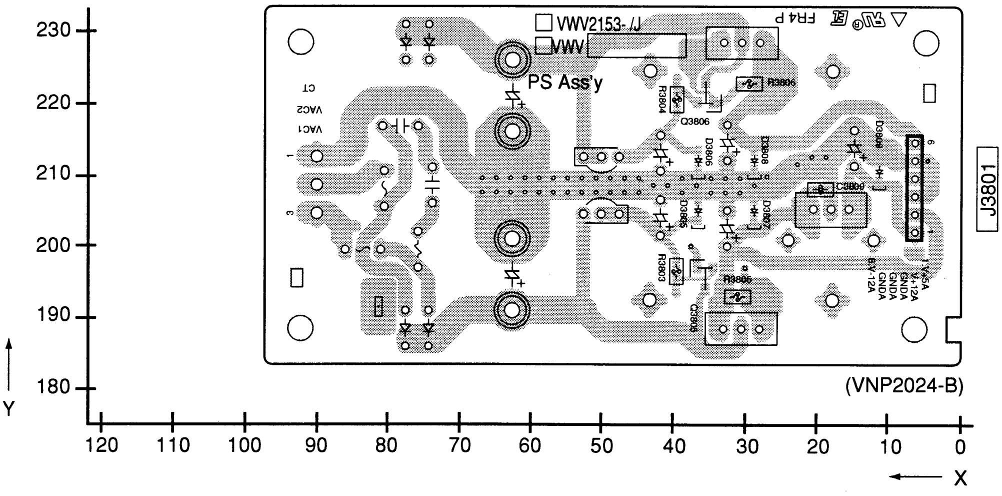
4.7 PS ASSY

SIDE A **SIDE A**

I PS ASSY


C CN3102
J3801
PS Ass'y
VWV2153-/J
VWV
1.V+5A
2.V+12A
3.GNDA
4.GNDA
5.GNDA
6.V-12A
2SA1859A
2SC4883A
Q3802
Q3801
IC3803
C3810
C3808
C3807
C3806
C3805
C3804
C3803
C3802
C3801
Q3804
Q3803
D3801
D3802
D3803
D3804
R3801
IC3801
IC3802
AEK7009
CN3801
VAC1
VAC2
CT
NON-NFB REGURATOR
BOND
FR4 P
Pioneer
(VNP2024-B)
230
220
210
200
190
180
Y
0
10
20
30
40
50
60
70
80
90
100
X

SIDE B **SIDE B**

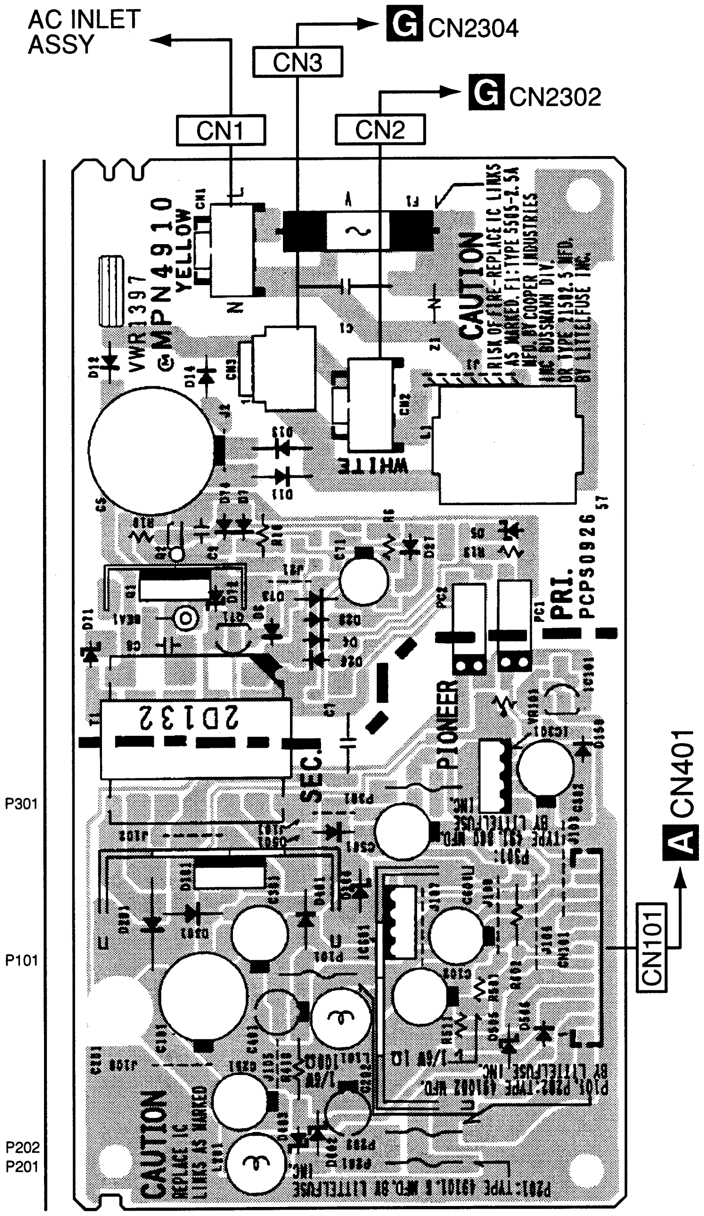

VWV2153-/J
VWV
PS Ass'y
FR4 P
J3801
CT
VAC2
VAC1
R3806
R3805
R3804
R3803
Q3806
Q3805
D3805
D3806
D3807
D3808
D3809
C3809
1.V+5A
2.V+12A
GNDA
GNDA
GNDA
6.V-12A
(VNP2024-B)
230
220
210
200
190
180
Y
120
110
100
90
80
70
60
50
40
30
20
10
0
X

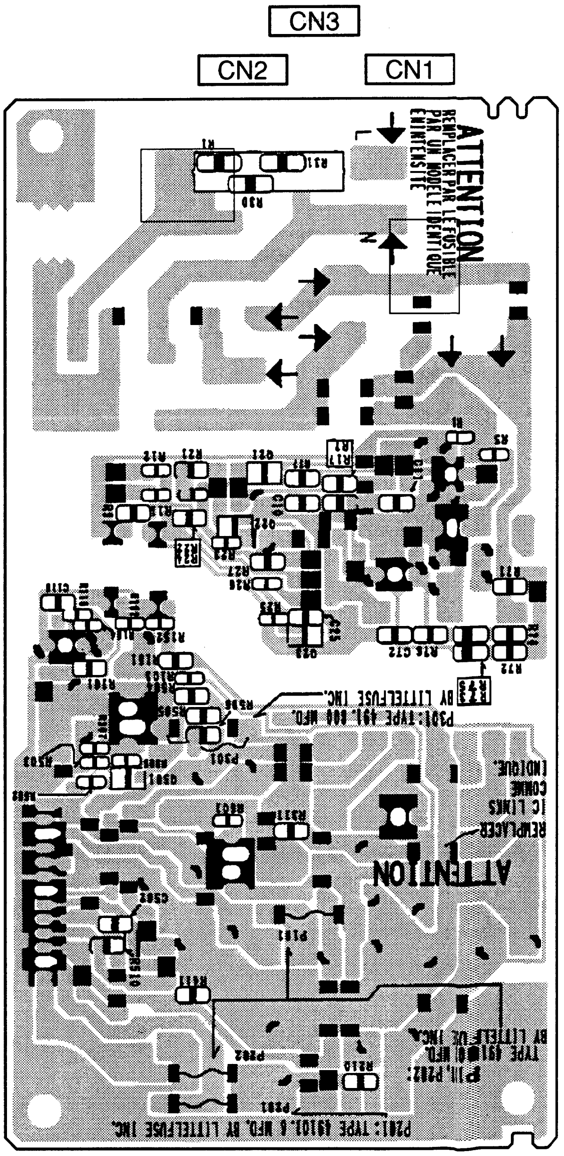
4.8 POWER SUPPLY UNIT

SIDE A

SIDE B

H POWER SUPPLY UNIT
[VWR1397]


AC INLET ASSY
CN3
G CN2304
CN1
CN2
G CN2302
VWR1397
MPN4910
YELLOW
WHITE
CAUTION
RISK OF FIRE-REPLACE IC LINKS AS MARKED. F1:TYPE 5505-2.5A MFD. BY COOPER INDUSTRIES (BUSSMANN DIV.) OR TYPE 21502.5 MFD. BY LITTELFUSE INC.
PCPS0926
PRI.
PIONEER
2D132
SEC.
A CN401
CN101
P301
P101
P202
P201
CAUTION
REPLACE IC LINKS AS MARKED


CN3
CN2
CN1
ATTENTION
REMPLACER PAR LE FUSIBLE PAR UN MODELE IDENTIQUE EN INTENSITE
ATTENTION
REMPLACER IC LINKS COMME INDIQUE.

5. PCB PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56×10^1 → 561 .... RD1/4PU$\boxed{5}\boxed{6}\boxed{1}$J
47k Ω → 47×10^3 → 473 .... RD1/4PU$\boxed{4}\boxed{7}\boxed{3}$J
0.5 Ω → R50 .... RN2H$\boxed{R}\boxed{5}\boxed{0}$K
1 Ω → 1R0 .... RS1P$\boxed{1}\boxed{R}\boxed{0}$K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562×10^1 → 5621 .... RN1/4PC$\boxed{5}\boxed{6}\boxed{2}\boxed{1}$F

- *Meaning of the figures and others in the parentheses in the parts list.*

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

■ LIST OF HOLE PCB ASSEMBLIES

Mark	Symbol and Description	DV-989AVi-S /WYXJ5	DV-989AVi-S /YXJRE5	DV-989AVi-G /HLXJ	DV-989AVi-S /WPWXJ
NSP	1..FLKB ASSY	VWM2350	VWM2350	VWM2354	VWM2354
	2..MSWB ASSY	VWG2548	VWG2548	VWG2548	VWG2548
	2..FLKY ASSY	VWG2552	VWG2552	VWG2554	VWG2554
	2..PLED ASSY	VWG2557	VWG2557	VWG2557	VWG2557
	2..KEYB ASSY	VWG2558	VWG2558	VWG2558	VWG2558
NSP	1..AVKB ASSY	VWM2353	VWM2353	VWM2351	VWM2352
	2..AJKB ASSY	VWV2149	VWV2149	VWV2148	VWV2148
	2..VJKB ASSY	VWV2152	VWV2152	VWV2150	VWV2151
	2..PS ASSY	VWV2153	VWV2153	VWV2153	VWV2153
	1..DVDM ASSY	VWS1601	VWS1601	VWS1601	VWS1601
	1..SCRB ASSY	VWV1992	VWV1992	Not used	Not used
NSP	1..LOADER MECHA ASSY	VWT1218	VWT1218	VWT1218	VWT1218
NSP	2..LOAB ASSY	VWG2426	VWG2426	VWG2426	VWG2426

A DVDM ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	IC 101	(A,94 ,158) ASP IC	LA9704WS1
	IC 102	(B,95 ,157) IC	TC7W53FU
	IC 201	(B,53 ,159) DSP LSI	LC78652W
	IC 202	(A,97 ,198) SPINDLE DRIVER	BA6664FM
	IC 211	(A,72 ,171) VIDEO AMP IC	TK15404M
	IC 261	(B,68 ,190) OP-AMP IC	BA4510F
	IC 302	(B,75 ,149) OP-AMP IC	BA4510F
	IC 303	(B,64 ,136) LOGIC IC	TC7SZU04FU
	IC 304	(A,70 ,137) LOGIC IC	TC7SZU04FU
	IC 306	(B,57 ,136) LOGIC IC	TC7SZU04FU
	IC 351	(B,98 ,176) IC	M56788AFP
⚠	IC 401	(A,95 ,71) REGULATOR,IC	PQ033EZ01ZP
⚠	IC 402	(A,97 ,41) REGULATOR IC (5.0V)	MM1565AF
⚠	IC 403	(A,98 ,121) REGULATOR,IC	PQ025EZ01ZP
⚠	IC 404	(B,100 ,205) REGULATOR IC(3.3V)	MM1385EN
⚠	IC 405	(B,112 ,19) REGULATOR IC	NJM2880U1-05
⚠	IC 410	(A,95 ,235) REGULATOR IC	MM1561JF
⚠	IC 411	(A,11 ,180) REGULATOR,IC	PQ025EZ01ZP
	IC 451	(A,17 ,102) LOGIC IC	TC7SHU04FUS1
	IC 452	(B,51 ,181) IC	TC7SH08FUS1
	IC 453	(B,65 ,170) LOGIC IC	TC7SHU04FUS1
	IC 454	(A,33 ,118) LOGIC IC	TC7SHU04FUS1
	IC 455	(A,33 ,113) LOGIC IC	TC7SHU04FUS1
⚠	IC 471	(A,93 ,132) REGULATOR IC	MM1561JF
	IC 481	(A,25 ,106) CLOCK GENERATE IC	SM8707HV
	IC 491	(A,20 ,127) CPLD IC	LC4032VAA
	IC 503	(A,81 ,232) IC	TC74VHC157FTS1
	IC 504	(A,68 ,233) IC	TC74VHC157FTS1
	IC 505	(A,53 ,233) IC	TC74VHC157FTS1
	IC 506	(B,96 ,242) IC	TC7SH08FUS1
	IC 552	(A,76 ,209) AQE IC	PD0274A
	IC 553	(A,71 ,198) IC	TC7WH157FU
	IC 601	(A,59 ,111) SYSTEM CONTROL CPU	PD6345A
	IC 603	(B,63 ,116) FLASH ROM	VYW2363
	IC 701	(A,39 ,159) DVD DATA PROCESSOR	PE5286B
	IC 741	(B,27 ,165) IC	HY57V161610ETP-8
	IC 751	(B,31 ,111) MPEG2 DECODER IC	M65776BFP
	IC 752	(B,32 ,134) IC	TC7SZ32FU
	IC 753	(B,10 ,144) IC	TC7WH125FU
	IC 781	(B,18 ,80) SD-RAM(64M)	HY57V641620ETP-H
	IC 786	(B,24 ,138) IC	TC74VHC541FTS1

Mark	No.	Description	Part No.
	IC 801 (A,36 ,46)	IEEE1394 PHY LINK	TSB43CA42ZGW
	IC 802 (B,41 ,79)	FLASH ROM	VYW2317
	IC 803 (B,18 ,36)	VCO IC	BU2370FV
	IC 804 (A,12 ,50)	OP AMP IC	NJU7093AF
	IC 805 (A,25 ,82)	MICROCOMPUTER	PD5787A
	IC 806 (B,50 ,44)	IC	TC7SH08FUS1
	IC 901 (B,74 ,73)	PROGRESSIVE IC	CM0039AF
	IC 902 (B,80 ,43)	SDRAM(64M)	K4S643232H-TC60
	IC 1001(A,68 ,75)	RESO EXP IC	PD0280B
	IC 1051(A,71 ,45)	HDMI TRANSMITER	SII9030CTU
	IC 1101(B,68 ,216)	DSP IC	DSPD56367PV150
	IC 1102(B,82 ,202)	IC	TC7SH04FUS1
	IC 1103(B,49 ,196)	IC	TC7WH34FU
	IC 1105(B,33 ,191)	IC	HY57V161610ETP-8
	IC 1106(A,25 ,182)	IC	TC7SH00FUS1
	IC 1107(A,33 ,183)	IC	TC7WH74FU
	IC 1110(A,34 ,204)	SACD DECODER	CXD2753R
	Q 101 (B,96 ,150)	CHIP TRANSISTOR	HN1A01F
	Q 102 (B,102 ,150)	CHIP TRANSISTOR	HN1A01F
	Q 103 (A,88 ,175)	CHIP TRANSISTOR	HN1B04FU
	Q 104 (A,73 ,163)	CHIP TRANSISTOR	HN1C01FU
	Q 105 (A,88 ,145)	CHIP TRANSISTOR	HN1B04FU
	Q 106 (A,77 ,153)	CHIP TRANSISTOR	HN1A01F
	Q 107 (B,102 ,134)	NMOS FET TRANSISTOR	UM5K1N
	Q 108 (B,98 ,138)	CHIP TRANSISTOR	DTC114EUA
	Q 241 (B,83 ,166)	CHIP TRANSISTOR	DTC114EUA
	Q 401 (B,28 ,218)	TRANSISTOR(SC-70)	2SA1602A
	Q 402 (B,24 ,218)	TRANSISTOR(SC-70)	2SA1602A
	Q 403 (B,25 ,225)	TRANSISTOR	2SC4081
	Q 404 (A,89 ,28)	CHIP TRANSISTOR	DTC114TUA
	Q 601 (B,87 ,115)	CHIP TRANSISTOR	RN4982
	Q 801 (B,20 ,24)	CHIP TRANSISTOR	DTC114TUA
	Q 802 (A,20 ,25)	CHIP TRANSISTOR	RN4982
	Q 901 (A,98 ,28)	CHIP TRANSISTOR	HN1C01FU
	Q 904 (B,94 ,92)	TRANSISTOR	2SA1576A
	Q 905 (B,90 ,92)	TRANSISTOR	2SA1576A
	Q 907 (B,82 ,92)	TRANSISTOR	2SA1576A
	Q 908 (B,79 ,92)	TRANSISTOR	2SA1576A
	Q 909 (B,76 ,92)	TRANSISTOR	2SA1576A
	Q 910 (B,94 ,98)	CHIP TRANSISTOR	HN1B04FU
	Q 911 (B,90 ,98)	CHIP TRANSISTOR	HN1B04FU
	Q 912 (B,86 ,95)	CHIP TRANSISTOR	HN1B04FU
	Q 913 (B,83 ,98)	CHIP TRANSISTOR	HN1B04FU
	Q 914 (B,79 ,98)	CHIP TRANSISTOR	HN1B04FU
	Q 915 (B,76 ,98)	CHIP TRANSISTOR	HN1B04FU
	Q 941 (A,98 ,33)	CHIP TRANSISTOR	RN4982
	Q 1052(A,61 ,30)	NMOS FET TRANSISTOR	UM6K1N
	Q 1054(B,63 ,29)	CHIP TRANSISTOR	HN1C01FU
	Q 1055(B,68 ,27)	TRANSISTOR	2SA1576A
	Q 1057(B,65 ,37)	DIGITAL TRANSISTOR	DTC124EUA
	Q 1058(B,60 ,30)	CHIP TR (PNP X 2)	UMB1N
	D 302 (B,74 ,140)	CHIP VARI-CAP DIOD	EKV1870S
	D 303 (B,68 ,140)	CHIP VARI-CAP DIOD	EKV1870S
	D 401 (A,91 ,246)	DIODE	RB051L-40
	D 402 (A,91 ,111)	DIODE	RB051L-40
	D 403 (A,98 ,45)	CHIP DIODE	RB501V-40
	D 404 (B,101 ,202)	CHIP DIODE	RB501V-40
	D 406 (A,89 ,70)	CHIP DIODE	RB501V-40
	D 408 (A,17 ,175)	CHIP DIODE	RB501V-40
	D 409 (B,110 ,15)	CHIP DIODE	RB501V-40

Mark	No.	Description	Part No.
	D 601 (B,90 ,113)	CHIP DIODE	RB501V-40
	D 801 (A,49 ,85)	CHIP DIODE	RB501V-40
	D 901 (A,101 ,24)	DIODE	1SS355
	L 304 (B,72 ,133)	CHIP COIL	LCYA1R2J2520
	L 401 (A,22 ,248)	CHIP BEADS	VTL1084
	L 481 (A,14 ,105)	CHIP BEADS	VTL1084
	L 805 (A,53 ,23)	COIL	VTH1047
	L 806 (A,49 ,23)	COIL	VTH1047
	L 807 (A,36 ,23)	COIL	VTH1047
	L 808 (A,32 ,23)	COIL	VTH1047
	L 1051(A,79 ,26)	COIL	ATH7022
	L 1052(A,75 ,26)	COIL	ATH7022
	L 1053(A,71 ,26)	COIL	ATH7022
	L 1054(A,68 ,26)	COIL	ATH7022
	L 1101(B,45 ,210)	CHIP COIL	LCYA1R0J2520
	L 1102(A,13 ,196)	CHIP BEADS	VTL1084
	JA1 (A,34 ,12)	1394-TERMINAL	VKN1800
	JA2 (A,52 ,12)	1394-TERMINAL	VKN1800
	JA1001(A,72 ,13)	HDMI CONNECTOR	AKP1278
	KN1 (A,99 ,217)	EARTH METAL FITTING	VNF1109
	KN2 (A,12 ,247)	EARTH METAL FITTING	VNF1109
	KN3 (A,98 ,96)	EARTH METAL FITTING	VNF1109
	KN4 (A,8 ,26)	EARTH METAL FITTING	VNF1109
	KN1051(A,92 ,8)	SCREW PLATE	VNE1948
	X 481 (A,35 ,103)	CRYSTAL RESONATOR	VSS1172
	X 601 (A,73 ,130)	CERAMIC RESONATOR	VSS1160
	X 801 (A,7 ,82)	CERAMIC RESONATOR	VSS1179
	X 802 (A,52 ,43)	CRYSTAL RESONATOR	ASS7055
	CN103 (A,114 ,106)	CONNECTOR	AKM1276
	CN111 (A,114 ,131)	24P CONNECTOR	VKN1464
	CN114 (A,114 ,206)	4P CONNECTOR	VKN1409
	CN115 (A,113 ,232)	12P CONNECTOR	VKN1416
	CN401 (A,114 ,77)	CONNECTOR	AKM1284
	CN402 (A,24 ,256)	17P CONNECTOR	VKN1421
	CN403 (A,107 ,14)	07P CONNECTOR	RKN1048
	CN551 (A,68 ,256)	31P CONNECTOR	VKN1517
	CN801 (A,17 ,14)	07P CONNECTOR	RKN1048
	CN901 (A,114 ,42)	23P CONNECTOR	VKN1427
	2	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
	R 1 (B,108 ,259)		RS1/16S332J
	R 2 (B,107 ,254)		RS1/16S472J
	R 4 (B,105 ,254)		RS1/16S103J
	R 101 (A,94 ,139)		RS1/16S473J
	R 102 (A,94 ,141)		RS1/16S473J
	R 103 (A,94 ,138)		RS1/16S473J
	R 104 (A,94 ,143)		RS1/16S473J
	R 105 (A,99 ,138)		RS1/16S153J
	R 106 (A,102 ,139)		RS1/16S153J
	R 107 (A,102 ,138)		RS1/16S223J
	R 108 (A,102 ,136)		RS1/16S223J
	R 109 (A,105 ,141)		RS1/16S223J
	R 110 (A,105 ,138)		RS1/16S223J
	R 111 (B,96 ,144)		RAB4C220J
	R 112 (B,93 ,150)		RS1/16S472J
	R 113 (B,102 ,144)		RAB4C470J
	R 114 (B,105 ,150)		RS1/16S472J
	R 115 (A,75 ,163)		RS1/16S101J
	R 116 (A,76 ,166)		RS1/16S102J

Mark	No.	Description	Part No.
	R 117 (A,89,168)		RS1/16S333J
	R 118 (A,89,172)		RS1/16S473J
	R 119 (A,85,179)		RS1/16S223J
	R 120 (A,88,180)		RS1/16S223J
	R 121 (A,85,175)		RS1/16S223J
	R 122 (B,83,158)		RS1/16S225J
	R 123 (A,81,165)		RS1/16S1202F
	R 124 (A,98,167)		RS1/16S333J
	R 125 (A,100,167)		RS1/16S473J
	R 126 (A,96,168)		RS1/16S123J
	R 127 (A,93,172)		RS1/16S103J
	R 128 (A,81,154)		RS1/16S101J
	R 129 (A,75,157)		RS1/16S102J
	R 130 (A,81,152)		RS1/16S101J
	R 131 (A,74,153)		RS1/16S102J
	R 132 (A,81,167)		RS1/16S4702F
	R 133 (A,81,164)		RS1/16S333J
	R 134 (A,81,156)		RS1/16S151J
	R 135 (A,73,149)		RS1/16S471J
	R 136 (A,78,149)		RS1/16S471J
	R 137 (A,108,141)		RS1/16S0R0J
	R 138 (A,105,120)		RS1/10S0R0J
	R 139 (B,101,138)		RS1/16S104J
	R 140 (B,103,129)		RS1/16S0R0J
	R 141 (B,103,138)		RS1/16S104J
	R 142 (B,98,141)		RS1/16S103J
	R 150 (A,81,175)		RS1/16S0R0J
	R 151 (A,92,145)		RS1/16S392J
	R 152 (A,90,145)		RS1/16S392J
	R 153 (A,95,145)		RS1/16S392J
	R 154 (A,93,145)		RS1/16S392J
	R 155 (A,99,142)		RS1/16S103J
	R 156 (A,101,142)		RS1/16S103J
	R 157 (A,103,142)		RS1/16S153J
	R 158 (A,105,143)		RS1/16S153J
	R 159 (A,81,172)		RS1/16S0R0J
	R 160 (A,80,137)		RS1/10S0R0J
	R 161 (A,96,145)		RS1/16S225J
	R 162 (A,98,145)		RS1/16S225J
	R 165 (A,103,145)		RS1/16S105J
	R 166 (A,104,145)		RS1/16S105J
	R 167 (A,106,145)		RS1/16S103J
	R 169 (A,88,139)		RS1/16S102J
	R 170 (A,88,138)		RS1/16S102J
	R 171 (A,73,147)		RS1/16S102J
	R 172 (A,78,147)		RS1/16S102J
	R 173 (A,88,143)		RS1/16S102J
	R 174 (A,88,141)		RS1/16S102J
	R 175 (A,86,139)		RS1/16S222J
	R 176 (A,86,142)		RS1/16S101J
	R 177 (A,88,148)		RS1/16S222J
	R 202 (B,53,172)		RS1/16S0R0J
	R 203 (B,65,165)		RS1/16S472J
	R 204 (B,68,162)		RS1/16S472J
	R 205 (A,111,198)		RS1/10S0R0J
	R 206 (A,97,185)		RS1/10S0R0J
	R 207 (B,53,176)		RS1/16S0R0J
	R 208 (B,73,162)		RS1/16S473J
	R 209 (B,68,157)		RS1/16S104J
	R 210 (B,66,157)		RS1/16S473J
	R 211 (B,73,158)		RS1/16S563J
	R 212 (B,73,157)		RS1/16S821J
	R 213 (B,49,170)		RS1/16S223J
	R 214 (B,60,171)		RS1/16S223J
	R 215 (B,48,170)		RS1/16S103J
	R 218 (A,72,174)		RS1/16S103J
	R 219 (B,55,146)		RS1/16S103J
	R 220 (B,50,143)		RS1/10S0R0J
	R 221 (B,42,145)		RS1/16S332J
	R 222 (B,42,148)		RS1/16S681J
	R 223 (B,42,150)		RS1/16S473J
	R 224 (B,39,152)		RS1/16S681J
	R 225 (A,72,168)		RS1/16S152J
	R 226 (A,72,176)		RS1/16S103J
	R 227 (A,72,166)		RS1/16S102J
	R 228 (A,70,161)		RS1/16S102J
	R 229 (B,39,154)		RS1/16S473J
	R 231 (B,38,167)		RS1/16S222J
	R 232 (B,41,161)		RS1/16S152J
	R 234 (A,74,160)		RS1/16S101J
	R 236 (B,58,173)		RS1/16S0R0J
	R 240 (B,74,154)		RS1/10S0R0J
	R 241 (A,77,157)		RS1/16S331J
	R 242 (B,76,157)		RS1/16S681J
	R 246 (B,41,164)		RS1/16S104J
	R 251 (A,98,189)		RS1/16S562J
	R 252 (A,93,189)		RS1/16S682J
	R 253 (A,96,189)		RS1/16S682J
	R 257 (A,111,195)	CHIP RESISTOR	RS1/4SA1R0J
	R 258 (A,111,192)	CHIP RESISTOR	RS1/4SA2R2J
	R 259 (A,111,188)	CHIP RESISTOR	RS1/4SA2R2J
	R 260 (B,41,174)		RS1/10S0R0J
	R 261 (B,58,188)		RS1/16S154J
	R 262 (B,59,188)		RS1/16S104J
	R 263 (B,61,188)		RS1/16S224J
	R 264 (B,62,188)		RS1/16S154J
	R 266 (B,58,191)		RS1/16S184J
	R 268 (B,59,191)		RS1/16S104J
	R 269 (B,68,186)		RS1/16S103J
	R 270 (B,77,189)		RS1/16S153J
	R 271 (B,74,188)		RS1/16S153J
	R 272 (B,68,165)		RS1/16S332J
	R 280 (B,36,156)		RS1/10S0R0J
	R 298 (A,59,134)		RS1/16S470J
	R 301 (B,57,142)		RS1/10S0R0J
	R 310 (B,65,149)		RS1/16S104J
	R 311 (B,68,148)		RS1/16S104J
	R 312 (B,65,145)		RS1/16S103J
	R 313 (B,68,147)		RS1/16S153J
	R 314 (B,65,147)		RS1/16S223J
	R 315 (B,54,136)		RS1/16S470J
	R 316 (B,82,147)		RS1/16S223J
	R 317 (B,80,147)		RS1/16S153J
	R 318 (B,78,145)		RS1/16S103J
	R 322 (B,73,145)		RS1/16S103J
	R 328 (B,68,150)		RS1/16S102J
	R 329 (B,73,143)		RS1/16S332J
	R 330 (B,74,137)		RS1/16S104J
	R 331 (A,68,137)		RS1/16S104J
	R 332 (B,68,133)		RS1/16S471J

Mark	No.	Description	Part No.
	R 333 (A,69 ,153)		RS1/16S102J
	R 334 (B,60 ,136)		RS1/16S470J
	R 335 (B,69 ,143)		RS1/16S682J
	R 336 (B,68 ,137)		RS1/16S104J
	R 340 (A,68 ,153)		RS1/16S0R0J
	R 341 (B,78 ,172)		RS1/10S101J
	R 342 (A,63 ,156)		RS1/16S182J
	R 343 (A,61 ,153)		RS1/16S220J
	R 344 (B,82 ,151)		RS1/16S101J
	R 345 (A,68 ,156)		RS1/16S182J
	R 350 (B,73 ,180)		RS1/10S0R0J
	R 351 (B,88 ,168)		RS1/16S472J
	R 353 (B,86 ,168)		RS1/16S153J
	R 357 (B,87 ,183)	CHIP RESISTOR	RS1/16S6802F
	R 358 (B,84 ,183)	CHIP RESISTOR	RS1/16S1503F
	R 359 (B,87 ,193)		RS1/16S123J
	R 360 (B,87 ,192)		RS1/16S472J
	R 361 (B,87 ,187)	CHIP RESISTOR	RS1/16S1503F
	R 362 (B,87 ,188)	CHIP RESISTOR	RS1/16S6802F
	R 363 (B,110 ,184)	CHIP RESISTOR	RS1/16S6802F
	R 364 (B,107 ,181)		RS1/16S1003F
	R 368 (B,107 ,179)	CHIP RESISTOR	RS1/16S6802F
	R 369 (B,110 ,183)		RS1/16S1003F
	R 372 (B,108 ,171)	CHIP RESISTOR	RS1/16S6802F
	R 373 (B,108 ,169)		RS1/16S1003F
	R 374 (B,107 ,163)	CHIP RESISTOR	RS1/16S6802F
	R 375 (B,107 ,165)		RS1/16S1003F
	R 389 (B,111 ,107)		RS1/16S103J
	R 390 (B,111 ,109)		RS1/16S103J
	R 391 (A,107 ,228)		RS1/16S103J
	R 401 (B,105 ,205)		RS1/10S0R0J
	R 403 (A,88 ,38)		RS1/10S0R0J
	R 408 (B,28 ,236)		RS1/16S220J
	R 409 (B,22 ,236)		RS1/16S220J
	R 410 (B,27 ,236)		RS1/16S220J
	R 411 (B,20 ,236)		RS1/16S220J
	R 412 (B,17 ,236)		RS1/16S220J
	R 413 (B,23 ,236)		RS1/16S220J
	R 415 (B,26 ,212)		RS1/16S220J
	R 417 (B,16 ,236)		RS1/16S0R0J
	R 420 (A,93 ,24)		RS1/16S103J
	R 425 (A,93 ,23)		RS1/16S562J
	R 427 (A,88 ,31)		RS1/16S103J
	R 429 (A,93 ,26)		RS1/16S103J
	R 448 (B,28 ,214)		RS1/16S682J
	R 449 (B,28 ,221)		RS1/16S104J
	R 450 (B,24 ,221)		RS1/16S182J
	R 451 (B,28 ,225)		RS1/16S104J
	R 452 (A,24 ,99)		RS1/16S220J
	R 453 (A,19 ,102)		RS1/16S470J
	R 454 (A,29 ,109)		RS1/16S220J
	R 455 (A,32 ,109)		RS1/16S0R0J
	R 456 (A,14 ,115)		RS1/16S680J
	R 458 (B,47 ,181)		RS1/16S0R0J
	R 459 (A,18 ,112)		RS1/16S680J
	R 460 (A,21 ,116)		RS1/16S470J
	R 462 (B,64 ,173)		RS1/16S220J
	R 463 (A,21 ,114)		RS1/16S470J
	R 464 (A,28 ,118)		RS1/16S101J
	R 466 (A,28 ,113)		RS1/16S680J

Mark	No.	Description	Part No.
	R 467 (A,36 ,119)		RS1/16S680J
	R 468 (A,36 ,112)		RS1/16S680J
	R 481 (A,20 ,113)		RS1/16S0R0J
	R 482 (A,28 ,95)		RS1/10S0R0J
	R 483 (A,32 ,102)		RS1/16S0R0J
	R 484 (A,32 ,104)		RS1/16S101J
	R 485 (A,29 ,103)		RS1/16S105J
	R 491 (A,8 ,129)		RS1/10S0R0J
	R 492 (A,10 ,125)		RS1/16S220J
	R 539 (A,86 ,234)		RS1/16S560J
	R 540 (A,61 ,235)		RS1/16S560J
	R 541 (A,63 ,235)		RS1/16S560J
	R 542 (A,73 ,235)		RS1/16S560J
	R 543 (A,87 ,232)		RS1/16S0R0J
	R 544 (A,47 ,235)		RS1/16S560J
	R 545 (A,48 ,235)		RS1/16S560J
	R 546 (A,58 ,235)		RS1/16S560J
	R 547 (A,59 ,235)		RS1/16S560J
	R 551 (A,71 ,216)		RS1/16S560J
	R 552 (A,72 ,216)		RS1/16S220J
	R 553 (A,74 ,216)		RS1/16S220J
	R 554 (A,82 ,198)		RS1/10S0R0J
	R 556 (B,93 ,249)		RS1/16S220J
	R 557 (A,84 ,206)		RS1/16S0R0J
	R 558 (A,83 ,206)		RS1/16S0R0J
	R 563 (B,89 ,249)		RS1/16S220J
	R 565 (A,76 ,235)		RS1/16S560J
	R 570 (B,103 ,249)		RS1/16S680J
	R 571 (B,97 ,249)		RS1/16S220J
	R 572 (B,95 ,249)		RS1/16S220J
	R 574 (B,99 ,249)		RS1/16S220J
	R 576 (B,91 ,249)		RS1/16S220J
	R 577 (A,74 ,235)		RS1/16S560J
	R 579 (B,51 ,252)		RS1/16S220J
	R 583 (B,101 ,249)		RS1/16S220J
	R 600 (A,39 ,122)		RS1/10S0R0J
	R 601 (A,34 ,96)		RS1/10S0R0J
	R 602 (A,48 ,92)		RS1/16S105J
	R 603 (B,67 ,132)		RS1/10S0R0J
	R 604 (A,81 ,106)		RS1/16S103J
	R 605 (A,50 ,92)		RS1/16S105J
	R 606 (A,52 ,88)		RS1/16S105J
	R 609 (A,50 ,133)		RS1/16S101J
	R 610 (A,75 ,98)		RS1/16S103J
	R 611 (A,79 ,106)		RS1/16S103J
	R 612 (A,63 ,132)		RS1/16S470J
	R 613 (A,68 ,132)		RS1/16S0R0J
	R 614 (A,66 ,95)		RS1/16S103J
	R 615 (A,66 ,128)		RS1/16S103J
	R 616 (A,65 ,132)		RS1/16S103J
	R 617 (A,64 ,93)		RS1/16S103J
	R 618 (A,70 ,132)		RS1/16S103J
	R 619 (A,50 ,129)		RS1/16S103J
	R 620 (A,62 ,132)		RS1/16S103J
	R 621 (A,64 ,128)		RS1/16S103J
	R 622 (A,59 ,95)		RS1/16S470J
	R 623 (A,82 ,104)		RS1/16S103J
	R 624 (A,83 ,106)		RS1/16S103J
	R 625 (A,78 ,116)		RS1/16S103J
	R 628 (A,79 ,110)		RS1/16S103J

Mark	No.	Description	Part No.
	R 629	(B,71 ,115)	RS1/16S330J
	R 630	(A,77 ,124)	RS1/16S103J
	R 631	(A,82 ,113)	RAB4C103J
	R 632	(A,52 ,129)	RS1/16S103J
	R 633	(A,67 ,128)	RS1/16S103J
	R 634	(A,81 ,110)	RS1/16S103J
	R 635	(A,51 ,92)	RS1/16S105J
	R 637	(A,78 ,114)	RS1/16S103J
	R 638	(A,80 ,124)	RS1/16S220J
	R 639	(A,82 ,124)	RS1/16S103J
	R 640	(A,81 ,101)	RS1/16S103J
	R 641	(A,58 ,92)	RS1/16S103J
	R 642	(A,82 ,120)	RS1/16S220J
	R 643	(A,75 ,124)	RS1/16S103J
	R 644	(A,80 ,120)	RS1/16S220J
	R 645	(A,78 ,124)	RS1/16S220J
	R 646	(A,78 ,106)	RS1/16S103J
	R 647	(A,55 ,92)	RS1/16S105J
	R 648	(A,39 ,131)	RS1/16S223J
	R 649	(B,54 ,124)	RS1/16S220J
	R 650	(A,59 ,136)	RS1/16S470J
	R 652	(A,44 ,129)	RS1/16S470J
	R 653	(B,57 ,103)	RS1/16S103J
	R 654	(A,73 ,96)	RS1/16S103J
	R 655	(A,53 ,92)	RS1/16S105J
	R 656	(B,72 ,118)	RS1/16S103J
	R 659	(A,53 ,134)	RS1/16S103J
	R 661	(A,38 ,128)	RS1/16S103J
	R 662	(A,52 ,133)	RS1/16S222J
	R 663	(A,38 ,129)	RS1/16S682J
	R 664	(A,38 ,133)	RS1/16S103J
	R 665	(A,49 ,129)	RS1/16S103J
	R 666	(A,47 ,129)	RS1/16S103J
	R 667	(A,46 ,129)	RS1/16S103J
	R 668	(B,54 ,119)	RS1/16S220J
	R 669	(A,80 ,96)	RS1/16S223J
	R 670	(A,85 ,99)	RS1/16S223J
	R 671	(A,78 ,98)	RS1/16S470J
	R 672	(A,87 ,96)	RS1/16S470J
	R 673	(A,84 ,96)	RS1/16S222J
	R 681	(A,73 ,126)	RS1/16S103J
	R 682	(B,87 ,112)	RS1/16S104J
	R 683	(A,73 ,127)	RS1/16S471J
	R 689	(A,76 ,96)	RS1/16S103J
	R 693	(A,75 ,102)	RS1/16S222J
	R 694	(A,75 ,101)	RS1/16S470J
	R 696	(A,82 ,98)	RS1/16S470J
	R 701	(A,55 ,183)	RS1/10S0R0J
	R 703	(A,46 ,179)	RS1/16S103J
	R 704	(B,50 ,122)	RS1/16S470J
	R 705	(A,51 ,178)	RS1/16S220J
	R 706	(A,38 ,181)	RS1/16S680J
	R 707	(B,52 ,147)	RS1/16S103J
	R 709	(A,57 ,160)	RS1/16S0R0J
	R 710	(A,60 ,163)	RS1/16S470J
	R 711	(A,63 ,167)	RS1/16S103J
	R 712	(A,39 ,180)	RS1/16S103J
	R 713	(A,36 ,178)	RAB4C103J
	R 715	(A,60 ,162)	RS1/16S220J
	R 716	(A,42 ,139)	RS1/16S103J

Mark	No.	Description	Part No.
	R 717	(A,43 ,139)	RS1/16S103J
	R 718	(A,62 ,148)	RS1/10S0R0J
	R 720	(A,61 ,169)	RS1/16S103J
	R 721	(A,60 ,179)	RS1/10S0R0J
	R 722	(A,17 ,167)	RS1/16S220J
	R 723	(A,60 ,172)	RS1/16S470J
	R 725	(A,60 ,165)	RS1/16S470J
	R 726	(A,63 ,165)	RS1/16S470J
	R 727	(A,17 ,164)	RS1/16S0R0J
	R 728	(B,10 ,66)	RS1/10S0R0J
	R 729	(B,45 ,134)	RAB4C101J
	R 730	(B,40 ,134)	RAB4C101J
	R 731	(A,22 ,149)	RS1/16S220J
	R 732	(A,32 ,140)	RS1/16S220J
	R 733	(A,32 ,141)	RS1/16S220J
	R 734	(A,35 ,176)	RS1/16S470J
	R 735	(A,46 ,181)	RS1/16S470J
	R 736	(A,48 ,178)	RS1/16S220J
	R 741	(B,9 ,171)	RS1/10S0R0J
	R 751	(B,53 ,109)	RS1/16S220J
	R 752	(B,55 ,109)	RS1/16S220J
	R 753	(B,10 ,148)	RS1/16S470J
	R 754	(B,13 ,143)	RS1/16S470J
	R 756	(B,51 ,130)	RS1/10S0R0J
	R 757	(B,51 ,132)	RS1/10S0R0J
	R 758	(B,15 ,133)	RS1/10S0R0J
	R 759	(B,15 ,135)	RS1/10S0R0J
	R 760	(B,12 ,97)	RS1/10S0R0J
	R 761	(B,31 ,93)	RS1/16S220J
	R 762	(B,50 ,124)	RS1/16S0R0J
	R 763	(B,8 ,113)	RS1/10S0R0J
	R 764	(B,28 ,134)	RS1/16S103J
	R 765	(B,20 ,132)	RS1/16S103J
	R 766	(B,30 ,135)	RS1/16S390J
	R 781	(B,23 ,71)	RS1/16S0R0J
	R 786	(B,18 ,147)	RAB4C470J
	R 787	(B,18 ,143)	RAB4C470J
	R 801	(A,45 ,67)	RS1/16S103J
	R 802	(A,44 ,67)	RS1/16S103J
	R 803	(A,47 ,67)	RS1/16S103J
	R 804	(B,48 ,61)	RAB4C103J
	R 805	(A,53 ,58)	RS1/16S103J
	R 806	(B,47 ,56)	RS1/16S103J
	R 807	(B,47 ,54)	RS1/16S103J
	R 808	(A,51 ,52)	RS1/16S103J
	R 809	(B,45 ,49)	RS1/16S103J
	R 810	(B,52 ,53)	RS1/16S103J
	R 811	(B,45 ,47)	RS1/16S103J
	R 812	(B,45 ,46)	RS1/16S103J
	R 813	(B,47 ,51)	RS1/16S103J
	R 814	(B,52 ,51)	RS1/16S103J
	R 815	(B,45 ,43)	RS1/16S103J
	R 816	(B,57 ,34) CHIP RESISTOR	RS1/16S6341D
	R 819	(B,42 ,53)	RS1/16S103J
	R 820	(A,42 ,67)	RS1/16S103J
	R 821	(B,28 ,63)	RAB4C220J
	R 822	(B,38 ,63)	RAB4C0R0J
	R 823	(B,33 ,63)	RAB4C0R0J
	R 824	(B,43 ,63)	RAB4C0R0J
	R 825	(A,23 ,54)	RS1/16S103J

Mark	No.	Description	Part No.
R	826 (A,14 ,88)		RS1/16S220J
R	828 (A,47 ,43)		RS1/16S151J
R	832 (A,40 ,88)		RAB4C0R0J
R	833 (A,40 ,84)		RAB4C0R0J
R	834 (A,25 ,49)		RS1/16S103J
R	835 (A,22 ,45)		RS1/16S103J
R	836 (A,22 ,42)		RS1/16S330J
R	837 (A,16 ,42)		RS1/16S0R0J
R	839 (A,19 ,33)		RS1/16S0R0J
R	841 (A,15 ,34)		RS1/16S0R0J
R	842 (A,51 ,33)		RS1/10S0R0J
R	843 (A,31 ,32)		RS1/16S103J
R	844 (A,33 ,33)		RS1/16S0R0J
R	845 (B,38 ,41)		RS1/10S0R0J
R	846 (A,20 ,58)		RS1/10S0R0J
R	847 (B,51 ,93)		RS1/10S0R0J
R	848 (A,48 ,88)		RS1/16S103J
R	849 (B,8 ,38)		RS1/10S0R0J
R	850 (A,19 ,37)		RS1/16S101J
R	851 (B,22 ,38)		RS1/16S103J
R	852 (B,22 ,42)		RS1/16S0R0J
R	853 (B,22 ,31)		RS1/16S273J
R	855 (B,16 ,30)		RS1/16S103J
R	856 (B,21 ,42)		RS1/16S472J
R	857 (A,12 ,53)		RS1/16S223J
R	858 (A,8 ,52)		RS1/16S223J
R	859 (A,7 ,48)		RS1/16S362J
R	860 (A,18 ,96)		RS1/16S103J
R	862 (A,11 ,88)		RS1/16S103J
R	863 (A,11 ,86)		RS1/16S0R0J
R	864 (A,11 ,78)		RS1/16S103J
R	865 (A,17 ,70)		RS1/16S103J
R	866 (A,18 ,70)		RS1/16S103J
R	867 (A,20 ,70)		RS1/16S220J
R	868 (A,23 ,70)		RS1/16S103J
R	869 (A,11 ,83)		RS1/16S0R0J
R	871 (A,22 ,70)		RS1/16S0R0J
R	872 (A,23 ,25)		RS1/16S104J
R	873 (A,28 ,70)		RS1/16S0R0J
R	874 (B,28 ,70)		RS1/16S103J
R	875 (A,29 ,70)		RS1/16S0R0J
R	876 (B,29 ,70)		RS1/16S103J
R	877 (A,32 ,70)		RAB4C0R0J
R	878 (B,32 ,70)		RAB4C103J
R	880 (A,25 ,70)		RS1/16S103J
R	882 (B,12 ,21)		RS1/16S103J
R	883 (B,17 ,26)		RS1/16S103J
R	884 (B,10 ,21)		RS1/16S0R0J
R	885 (B,13 ,21)		RS1/16S562J
R	886 (B,15 ,21)		RS1/16S0R0J
R	887 (B,16 ,21)		RS1/16S103J
R	888 (A,10 ,68)		RS1/10S0R0J
R	889 (A,53 ,27)	CHIP RESISTOR	RS1/16S56R0D
R	890 (A,52 ,26)	CHIP RESISTOR	RS1/16S56R0D
R	891 (A,35 ,27)	CHIP RESISTOR	RS1/16S56R0D
R	892 (A,35 ,26)	CHIP RESISTOR	RS1/16S56R0D
R	893 (A,48 ,27)	CHIP RESISTOR	RS1/16S56R0D
R	894 (A,48 ,26)	CHIP RESISTOR	RS1/16S56R0D
R	895 (A,31 ,27)	CHIP RESISTOR	RS1/16S56R0D
R	896 (A,30 ,26)	CHIP RESISTOR	RS1/16S56R0D

Mark	No.	Description	Part No.
R	897 (A,45 ,23)		RS1/16S5101F
R	901 (B,66 ,55)		RAB4C220J
R	902 (A,53 ,85)		RS1/16S0R0J
R	903 (A,53 ,82)		RS1/16S0R0J
R	904 (B,67 ,98)		RS1/16S0R0J
R	905 (B,91 ,54)		RAB4C103J
R	906 (B,89 ,30)		RAB4C103J
R	907 (B,54 ,58)		RS1/10S0R0J
R	909 (B,85 ,30)		RAB4C103J
R	911 (B,68 ,102)		RS1/16S0R0J
R	913 (B,69 ,102)		RS1/16S0R0J
R	914 (B,81 ,56)		RS1/16S220J
R	915 (B,61 ,83)		RS1/16S220J
R	916 (B,57 ,88)		RS1/10S0R0J
R	919 (B,96 ,34)		RS1/10S220J
R	920 (B,81 ,34)		RS1/16S0R0J
R	921 (B,63 ,59)		RS1/16S470J
R	922 (B,77 ,55)		RAB4C220J
R	923 (B,85 ,58)		RAB4C103J
R	924 (B,89 ,58)		RAB4C103J
R	925 (B,56 ,83)		RS1/16S0R0J
R	928 (B,92 ,74)		RS1/16S220J
R	929 (B,58 ,82)		RS1/16S0R0J
R	930 (B,56 ,93)		RAB4C103J
R	931 (B,60 ,98)		RAB4C220J
R	932 (B,64 ,98)		RAB4C220J
R	933 (B,54 ,78)		RAB4C220J
R	934 (B,92 ,73)		RS1/16S220J
R	935 (B,93 ,68)		RAB4C103J
R	936 (B,54 ,73)		RAB4C220J
R	937 (B,54 ,68)		RAB4C220J
R	940 (B,54 ,63)		RAB4C220J
R	941 (A,93 ,33)		RS1/16S222J
R	942 (A,93 ,31)		RS1/16S153J
R	943 (A,95 ,28)		RS1/16S473J
R	944 (B,56 ,98)		RAB4C103J
R	945 (A,99 ,24)		RS1/16S472J
R	946 (A,107 ,27)		RS1/16S220J
R	947 (B,52 ,83)		RS1/16S0R0J
R	948 (B,65 ,94)		RS1/16S220J
R	949 (A,106 ,52)		RS1/16S220J
R	950 (B,69 ,92)		RS1/10S0R0J
R	951 (B,103 ,85)		RS1/10S0R0J
R	952 (A,101 ,29)		RS1/16S474J
R	953 (B,87 ,80)		RS1/16S1802F
R	954 (A,107 ,25)		RS1/16S220J
R	955 (A,107 ,30)		RS1/16S220J
R	957 (A,107 ,47)		RS1/16S0R0J
R	958 (A,107 ,43)		RS1/16S0R0J
R	959 (A,107 ,32)		RS1/16S0R0J
R	960 (A,107 ,38)		RS1/16S0R0J
R	961 (B,92 ,80)		RS1/16S1502F
R	963 (A,107 ,36)		RS1/16S0R0J
R	964 (A,107 ,35)		RS1/16S220J
R	965 (A,107 ,41)		RS1/16S220J
R	966 (B,95 ,83)		RS1/16S1002F
R	968 (A,107 ,28)		RS1/16S0R0J
R	969 (A,107 ,44)		RS1/16S220J
R	979 (B,93 ,80)		RS1/16S681J
R	982 (A,107 ,49)		RS1/16S220J

Mark	No.	Description	Part No.
R	993 (B,96 ,73)		RAB4C103J
R	994 (B,95 ,64)		RAB4C103J
R	998 (A,100 ,33)		RS1/16S473J
R	1001(A,70 ,92)		RS1/10S0R0J
R	1002(A,80 ,93)		RS1/10S0R0J
R	1003(A,81 ,88)		RS1/16S0R0J
R	1004(A,60 ,38)		RS1/16S0R0J
R	1005(A,81 ,85)		RS1/16S0R0J
R	1006(A,87 ,77)		RS1/16S332J
R	1007(A,85 ,80)		RS1/16S821J
R	1009(A,82 ,71)		RS1/16S470J
R	1010(A,81 ,69)		RS1/16S220J
R	1011(A,85 ,68)		RS1/16S220J
R	1012(A,84 ,67)		RS1/16S220J
R	1013(A,84 ,58)		RAB4C220J
R	1014(A,80 ,58)		RAB4C220J
R	1015(A,76 ,58)		RAB4C220J
R	1016(A,72 ,58)		RAB4C220J
R	1017(A,67 ,58)		RAB4C220J
R	1018(A,63 ,58)		RAB4C220J
R	1049(A,58 ,30)		RS1/16S0R0J
R	1050(A,62 ,26)		RS1/16S0R0J
R	1051(A,86 ,48)		RS1/10S0R0J
R	1052(A,81 ,38)		RS1/10S0R0J
R	1053(A,81 ,35)		RS1/10S0R0J
R	1054(A,57 ,57)		RS1/10S0R0J
R	1055(A,64 ,35)		RS1/10S0R0J
R	1057(A,61 ,47)		RS1/16S220J
R	1058(A,59 ,50)		RS1/16S220J
R	1064(A,66 ,33)	CHIP RESISTOR	RS1/16S4750F
R	1065(A,56 ,53)		RS1/16S220J
R	1066(A,83 ,43)		RS1/16S0R0J
R	1068(A,56 ,51)		RS1/16S220J
R	1069(A,56 ,49)		RS1/16S220J
R	1070(A,56 ,48)		RS1/16S220J
R	1073(A,61 ,33)		RS1/16S472J
R	1074(A,59 ,26)		RS1/16S472J
R	1075(B,61 ,33)		RS1/16S272J
R	1078(A,59 ,23)		RS1/10S0R0J
R	1079(A,86 ,26)		RS1/10S0R0J
R	1080(B,79 ,25)		RS1/10S0R0J
R	1082(A,57 ,44)		RS1/16S220J
R	1083(B,58 ,23)		RS1/16S272J
R	1091(B,65 ,30)		RS1/16S272J
R	1092(B,60 ,26)		RS1/16S472J
R	1093(B,65 ,27)		RS1/16S472J
R	1094(B,70 ,29)		RS1/16S472J
R	1095(B,67 ,30)		RS1/16S562J
R	1096(B,63 ,26)		RS1/16S102J
R	1097(B,64 ,24)		RS1/16S473J
R	1098(B,71 ,27)		RS1/16S272J
R	1101(B,51 ,231)		RS1/10S0R0J
R	1102(B,53 ,194)		RS1/16S220J
R	1103(B,55 ,194)		RS1/16S220J
R	1104(B,82 ,207)		RS1/16S0R0J
R	1105(B,79 ,199)		RS1/16S0R0J
R	1108(B,81 ,205)		RS1/16S220J
R	1109(B,78 ,199)		RS1/16S103J
R	1110(B,76 ,199)		RS1/16S103J
R	1111(A,51 ,196)		RS1/16S103J

Mark	No.	Description	Part No.
R	1112(B,75 ,199)		RS1/16S103J
R	1113(B,73 ,199)		RS1/16S103J
R	1118(B,60 ,199)		RS1/16S103J
R	1119(B,53 ,216)		RS1/16S220J
R	1123(B,51 ,222)		RS1/16S103J
R	1125(B,78 ,203)		RS1/16S0R0J
R	1126(B,52 ,186)		RS1/10S0R0J
R	1127(B,41 ,202)		RAB4C103J
R	1128(B,35 ,202)		RAB4C103J
R	1133(B,94 ,227)		RS1/10S0R0J
R	1136(A,15 ,209)		RS1/16S470J
R	1137(A,15 ,210)		RS1/16S470J
R	1139(A,27 ,185)		RS1/10S0R0J
R	1140(A,22 ,180)		RS1/16S220J
R	1142(A,30 ,182)		RS1/16S0R0J
R	1145(A,39 ,186)		RS1/16S0R0J
R	1149(A,19 ,194)		RS1/16S470J
R	1150(B,29 ,200)		RS1/16S220J
R	1151(A,38 ,186)		RS1/16S220J
R	1156(A,40 ,227)		RS1/16S470J
R	1157(A,15 ,212)		RS1/16S470J
R	1159(A,16 ,222)		RS1/10S0R0J
R	1160(A,43 ,228)		RS1/10S0R0J
R	1161(A,11 ,216)		RS1/10S0R0J
R	1162(A,19 ,227)		RS1/16S470J
R	1163(A,21 ,227)		RS1/16S470J
R	1164(A,23 ,227)		RS1/16S470J
R	1165(A,24 ,227)		RS1/16S470J
R	1166(A,37 ,227)		RS1/16S470J
R	1167(A,38 ,227)		RS1/16S470J
R	1168(A,30 ,227)		RS1/16S470J
R	1169(A,32 ,227)		RS1/16S470J
R	1170(A,33 ,227)		RS1/16S470J
R	1171(A,35 ,227)		RS1/16S470J
R	1172(A,26 ,227)		RS1/16S470J
R	1173(A,27 ,227)		RS1/16S470J
R	1174(A,29 ,227)		RS1/16S470J
R	1175(A,46 ,186)		RAB4C470J
R	1176(A,50 ,186)		RAB4C470J
R	1201(B,94 ,95)		RS1/16S102J
R	1203(B,92 ,106)		RS1/16S270J
R	1204(B,93 ,108)		RS1/16S4700F
R	1205(B,93 ,106)	CHIP RESISTOR	RS1/16S2700F
R	1207(B,103 ,28)		RS1/16S102J
R	1208(B,90 ,95)		RS1/16S102J
R	1210(B,88 ,106)		RS1/16S270J
R	1211(B,89 ,108)		RS1/16S4700F
R	1212(B,90 ,106)	CHIP RESISTOR	RS1/16S2700F
R	1214(B,106 ,35)		RS1/16S102J
R	1215(B,85 ,91)		RS1/16S102J
R	1217(B,85 ,102)		RS1/16S180J
R	1218(B,85 ,104)		RS1/16S4700F
R	1219(B,86 ,102)	CHIP RESISTOR	RS1/16S2700F
R	1221(B,106 ,33)		RS1/16S102J
R	1222(B,82 ,95)		RS1/16S102J
R	1224(B,81 ,106)		RS1/16S330J
R	1225(B,82 ,108)		RS1/16S5600F
R	1226(B,83 ,106)		RS1/16S3900F
R	1228(B,103 ,38)		RS1/16S102J
R	1229(B,79 ,95)		RS1/16S102J

Mark	No.	Description	Part No.
	R 1231(B,78,106)		RS1/16S330J
	R 1232(B,79,108)		RS1/16S5600F
	R 1233(B,80,106)		RS1/16S3900F
	R 1235(B,103,43)		RS1/16S102J
	R 1236(B,76,95)		RS1/16S102J
	R 1238(B,74,106)		RS1/16S330J
	R 1239(B,74,107)		RS1/16S5600F
	R 1240(B,77,106)		RS1/16S3900F
	R 1242(B,103,46)		RS1/16S102J
	R 1801(A,18,61)		RS1/10S0R0J
	R 1813(A,40,80)		RAB4C0R0J
	R 1814(A,40,76)		RAB4C0R0J
	R 1815(A,40,72)		RS1/16S103J
	R 1816(A,35,72)		RS1/16S0R0J
	R 1817(B,20,27)		RS1/16S103J
	R 1818(A,40,73)		RS1/16S0R0J
	R 1819(B,35,42)		RS1/16S103J
	R 1820(A,28,23)		RS1/16S5101F

CAPACITORS

Mark	No.	Description	Part No.
	C 100 (A,81,157)		CCSRCH151J50
	C 101 (A,107,150)	CHIP OS CAPACITOR	ACH7174
	C 102 (B,99,155)		CKSRYB105K6R3
	C 103 (A,107,157)	CHIP ELECT.CAPACITOR	CEVW220M16
	C 104 (B,99,158)		CKSRYB105K6R3
	C 105 (A,104,162)		CKSRYB105K6R3
	C 106 (A,88,172)		CKSRYB152K50
	C 107 (A,88,178)		CCSRCH681J50
	C 108 (A,94,172)		CKSRYB104K16
	C 109 (A,96,172)		CCSRCH391J50
	C 110 (A,93,168)		CKSRYB103K50
	C 111 (A,91,168)		CKSRYB104K16
	C 112 (A,73,155)		CKSRYF105Z10
	C 113 (A,81,170)		CKSRYB103K50
	C 114 (A,81,168)		CKSRYB104K16
	C 115 (A,81,162)		CKSRYB104K16
	C 116 (A,80,159)		CKSRYB105K6R3
	C 117 (A,71,158)	CAPACITOR(TANTARIUM)	VCH1259
	C 118 (A,77,163)		CKSRYF105Z10
	C 119 (A,81,148)	CAPACITOR(TANTARIUM)	VCH1258
	C 120 (A,71,148)		CCSRCH221J50
	C 121 (A,75,148)		CCSRCH121J50
	C 122 (A,86,148)		CKSRYF105Z10
	C 123 (A,79,142)		CEVW101M16
	C 125 (A,108,139)		CKSRYF105Z10
	C 126 (A,105,118)		CKSRYF105Z10
	C 127 (A,80,161)		CKSRYB105K6R3
	C 128 (A,112,118)	CHIP PV CAPACITOR	VCH1252
	C 129 (A,84,144)		CKSRYF105Z10
	C 130 (B,101,129)		CKSRYF105Z10
	C 131 (B,95,154)		CKSRYF105Z10
	C 133 (A,99,139)		CCSRCH221J50
	C 134 (A,105,139)		CCSRCH151J50
	C 200 (B,60,169)		CKSRYF105Z10
	C 201 (B,37,161)	CAPACITOR(TANTARIUM)	VCH1259
	C 202 (B,53,169)		CKSRYF105Z10
	C 204 (B,53,170)		CKSRYF105Z10
	C 205 (B,45,142)	CAPACITOR(TANTARIUM)	VCH1258
	C 206 (B,63,165)		CKSRYB472K50

Mark	No.	Description	Part No.
	C 208 (B,66,162)		CKSRYB222K50
	C 212 (B,71,162)		CKSRYB104K16
	C 213 (B,69,162)		CKSRYB104K16
	C 214 (B,41,162)		CKSRYB472K50
	C 215 (B,63,157)		CKSRYF105Z10
	C 216 (B,70,157)		CKSRYB102K50
	C 217 (B,63,153)		CKSRYF105Z10
	C 220 (B,55,148)		CKSRYB103K50
	C 221 (B,45,148)		CKSRYF105Z10
	C 222 (B,49,148)		CKSRYF105Z10
	C 223 (B,37,150)		CKSRYB105K6R3
	C 224 (B,38,148)		CKSRYB105K6R3
	C 225 (B,42,147)		CKSRYB103K50
	C 226 (B,42,153)		CKSRYF105Z10
	C 227 (B,36,152)		CKSRYB104K16
	C 230 (B,42,158)		CKSRYF105Z10
	C 231 (B,39,156)		CKSRYB104K16
	C 232 (A,68,168)		CKSRYF105Z10
	C 233 (A,66,175)		CEVW101M16
	C 234 (A,71,163)		CKSRYB103K50
	C 236 (B,42,166)		CKSRYF105Z10
	C 237 (B,42,170)	CAPACITOR(TANTARIUM)	VCH1258
	C 241 (A,77,160)		CCSRCH560J50
	C 242 (B,80,167)		CKSRYB472K50
	C 248 (A,91,205)		CKSRYB104K16
	C 249 (A,90,207)		CKSRYB104K16
	C 250 (A,89,209)		CKSRYB104K16
	C 251 (A,91,189)		CKSRYB104K16
	C 253 (A,99,187)		CKSRYF105Z10
	C 254 (A,104,185)		CEVW101M16
	C 255 (A,90,189)		CKSRYB104K16
	C 256 (A,104,191)		CKSRYF105Z10
	C 258 (A,94,189)		CKSRYF105Z10
	C 261 (B,61,191)		CKSRYB103K50
	C 263 (B,78,189)		CKSRYB104K16
	C 264 (B,74,189)		CKSRYB105K6R3
	C 265 (B,68,194)		CKSRYF105Z10
	C 266 (B,66,165)		CKSRYB224K10
	C 299 (B,41,158)		CKSRYF105Z10
	C 310 (B,57,139)		CKSRYF105Z10
	C 312 (B,80,151)		CKSRYB105K6R3
	C 313 (B,80,144)		CKSRYB102K50
	C 314 (B,65,150)		CCSRCH150J50
	C 315 (B,68,145)		CKSRYB104K16
	C 317 (B,68,151)		CKSRYB104K16
	C 319 (B,78,154)		CKSRYF105Z10
	C 320 (B,74,136)		CKSRYB103K50
	C 321 (A,74,137)		CKSRYB103K50
	C 322 (B,70,136)		CKSRYB103K50
	C 324 (B,77,140)		CCSRCH331J50
	C 326 (B,64,142)	CAPACITOR(TANTARIUM)	VCH1258
	C 328 (A,73,137)		CKSRYF105Z10
	C 329 (B,64,139)		CKSRYF105Z10
	C 330 (A,72,153)		CKSRYB103K50
	C 332 (B,84,151)		CKSRYB104K16
	C 351 (B,89,168)		CKSRYB102K50
	C 353 (B,87,171)		CKSRYF104Z25
	C 357 (B,87,185)		CKSRYB472K50
	C 358 (A,104,174)		CEVW101M16
	C 359 (B,89,171)		CKSRYF104Z25

Mark	No.	Description	Part No.
C	360 (B,87,190)		CCSRCH681J50
C	363 (B,104,191)	CHIP TZV CAPACITOR	VCH1260
C	365 (B,108,166)		CKSRYF104Z25
C	366 (B,108,168)		CKSRYF104Z25
C	368 (B,78,180)	CHIP TZV CAPACITOR	VCH1260
C	369 (B,73,172)		CEVW101M16
C	390 (A,108,228)		CKSRYF105Z10
C	391 (A,105,228)		CCSRCH331J50
C	392 (B,111,110)		CCSRCH331J50
C	393 (A,107,108)		CKSRYF105Z10
C	401 (B,94,198)	CHIP PV CAPACITOR	VCH1252
C	403 (A,94,81)	CHIP TZV CAPACITOR	VCH1260
C	404 (B,101,200)		CKSRYB103K50
C	405 (A,104,60)	CHIP TZV CAPACITOR	VCH1260
C	407 (B,96,205)		CKSQYB225K10
C	408 (B,113,23)		CKSQYB225K10
C	409 (B,103,205)		CKSRYF105Z10
C	410 (A,104,78)		CKSRYF104Z25
C	411 (B,101,17)		CKSRYF105Z10
C	412 (B,101,15)		CKSRYB102K50
C	413 (A,91,51)	CHIP PV CAPACITOR	VCH1252
C	414 (A,99,51)		CEVW101M16
C	416 (A,92,44)		CKSQYB225K10
C	418 (A,102,45)		CKSRYF105Z10
C	419 (B,114,15)		CKSRYF105Z10
C	421 (A,101,110)	CHIP PV CAPACITOR	VCH1246
C	422 (A,89,120)		CEVW101M16
C	426 (B,28,232)		CKSRYB103K50
C	427 (A,106,78)		CKSRYB102K50
C	428 (B,112,72)		CKSRYB102K50
C	434 (A,103,72)	CHIP PV CAPACITOR	VCH1246
C	436 (A,93,61)	CHIP PV CAPACITOR	VCH1252
C	437 (A,103,85)	CHIP PV CAPACITOR	VCH1246
C	438 (A,98,86)		CKSRYF105Z10
C	439 (A,86,243)	CHIP PV CAPACITOR	VCH1246
C	442 (A,97,239)		CKSRYF105Z10
C	443 (A,97,246)	CHIP ELECT.CAPACITOR	CEVW221M4
C	444 (A,11,190)	CHIP PV CAPACITOR	VCH1246
C	446 (A,9,172)	CHIP PV CAPACITOR	VCH1246
C	451 (A,14,102)		CKSRYF105Z10
C	455 (B,51,183)		CKSRYF105Z10
C	459 (B,68,170)		CKSRYF105Z10
C	462 (A,33,121)		CKSRYF105Z10
C	464 (A,33,116)		CKSRYF105Z10
C	472 (A,103,127)		CKSRYF105Z10
C	474 (A,86,131)	CHIP PV CAPACITOR	VCH1246
C	475 (A,102,132)	CHIP ELECT.CAPACITOR	CEVW221M4
C	482 (A,21,105)		CKSRYF105Z10
C	483 (A,28,98)	CAPACITOR(TANTARIUM)	VCH1258
C	484 (A,27,101)		CKSQYB225K10
C	485 (A,26,112)		CKSRYF105Z10
C	486 (A,32,100)		CCSRCH5R0C50
C	487 (A,32,106)		CCSRCH5R0C50
C	488 (A,18,107)	CAPACITOR(TANTARIUM)	VCH1258
C	491 (A,9,135)	CHIP PV CAPACITOR	VCH1246
C	493 (A,13,122)		CKSRYF105Z10
C	494 (A,13,128)		CKSRYF105Z10
C	495 (A,27,126)		CKSRYF105Z10
C	496 (A,27,133)		CKSRYF105Z10
C	527 (A,79,228)		CKSRYF105Z10

Mark	No.	Description	Part No.
C	528 (A,79,227)		CKSRYB102K50
C	535 (A,62,228)	CAPACITOR(TANTARIUM)	VCH1258
C	536 (A,68,228)		CKSRYF105Z10
C	537 (A,52,229)		CKSRYF105Z10
C	538 (B,98,242)		CKSRYF105Z10
C	552 (A,78,199)	CAPACITOR(TANTARIUM)	VCH1258
C	553 (A,79,203)		CKSRYF105Z10
C	554 (A,78,215)		CKSRYF105Z10
C	556 (A,68,198)		CKSRYF105Z10
C	557 (A,68,201)		CKSRYB102K50
C	558 (A,70,250)		CKSRYF105Z10
C	559 (A,68,250)		CKSRYB102K50
C	560 (A,65,250)	CAPACITOR(TANTARIUM)	VCH1258
C	561 (A,65,244)	CHIP PV CAPACITOR	VCH1252
C	601 (A,42,96)	CHIP TZV CAPACITOR	VCH1262
C	602 (A,46,95)		CKSRYF105Z10
C	603 (A,43,110)		CKSRYF105Z10
C	604 (A,43,107)		CKSRYF105Z10
C	605 (A,48,95)		CKSRYF105Z10
C	606 (A,37,95)		CKSRYB102K50
C	607 (A,55,96)		CKSRYF105Z10
C	608 (A,42,118)		CKSRYF105Z10
C	609 (B,87,118)		CKSRYF104Z25
C	610 (A,61,93)		CKSRYF105Z10
C	613 (A,63,95)		CKSRYF105Z10
C	614 (A,69,126)		CKSRYF105Z10
C	615 (A,75,109)		CKSRYF105Z10
C	616 (A,74,122)		CKSRYF105Z10
C	617 (A,82,117)		CKSRYB102K50
C	618 (A,75,112)		CKSRYF105Z10
C	619 (B,85,112)		CKSRYB103K50
C	621 (B,62,128)		CKSRYF105Z10
C	622 (B,67,128)		CKSRYF105Z10
C	623 (A,43,123)	CAPACITOR(TANTARIUM)	VCH1258
C	625 (B,62,132)	CAPACITOR(TANTARIUM)	VCH1258
C	627 (A,78,131)	CHIP TZV CAPACITOR	VCH1262
C	657 (A,55,126)		CKSRYF105Z10
C	658 (A,58,126)		CKSRYF105Z10
C	662 (A,49,133)		CCSRCH100D50
C	701 (A,56,179)	CAPACITOR(TANTARIUM)	VCH1258
C	702 (A,59,147)	CAPACITOR(TANTARIUM)	VCH1258
C	703 (A,55,176)		CKSRYB102K50
C	704 (A,32,177)		CKSRYF105Z10
C	706 (A,39,177)		CKSRYF105Z10
C	707 (A,43,177)		CKSRYF105Z10
C	708 (A,57,171)		CKSRYF105Z10
C	709 (A,46,177)		CKSRYF105Z10
C	710 (A,52,176)		CKSRYF105Z10
C	711 (A,60,176)	CAPACITOR(TANTARIUM)	VCH1258
C	712 (A,20,170)		CKSRYF105Z10
C	713 (A,20,173)		CKSRYF105Z10
C	714 (A,58,173)		CKSRYF105Z10
C	715 (A,20,166)		CKSRYF105Z10
C	716 (A,56,163)		CKSRYF105Z10
C	718 (A,20,162)		CKSRYF105Z10
C	719 (A,56,158)		CKSRYF105Z10
C	720 (A,20,155)		CKSRYF105Z10
C	721 (A,60,157)		CKSRYF105Z10
C	722 (A,20,158)		CKSRYF105Z10
C	723 (A,65,148)		CKSRYF104Z25

Mark	No.	Description	Part No.
	C 724 (A,63 ,148)		CKSRYF105Z10
	C 725 (A,56 ,148)		CKSRYF105Z10
	C 726 (A,21 ,143)		CKSRYF105Z10
	C 727 (A,20 ,147)		CKSRYF105Z10
	C 728 (A,57 ,143)		CKSRYF105Z10
	C 729 (A,57 ,142)		CKSRYF105Z10
	C 730 (A,26 ,140)		CKSRYF105Z10
	C 731 (A,39 ,140)		CKSRYF105Z10
	C 732 (A,46 ,140)		CKSRYF105Z10
	C 733 (A,51 ,140)		CKSRYB102K50
	C 735 (A,27 ,177)		CKSRYF105Z10
	C 737 (A,17 ,148)	CAPACITOR(TANTARIUM)	VCH1258
	C 738 (A,18 ,141)	CAPACITOR(TANTARIUM)	VCH1258
	C 739 (B,12 ,93)	CAPACITOR(TANTARIUM)	VCH1258
	C 740 (A,20 ,250)		CKSRYB104K16
	C 741 (B,30 ,153)		CKSRYF105Z10
	C 742 (B,35 ,166)		CKSRYF105Z10
	C 743 (B,35 ,169)		CKSRYF105Z10
	C 744 (B,35 ,173)		CKSRYF105Z10
	C 745 (B,13 ,173)	CAPACITOR(TANTARIUM)	VCH1258
	C 746 (B,18 ,166)		CKSRYF105Z10
	C 747 (B,18 ,171)		CKSRYF105Z10
	C 748 (B,16 ,172)		CKSRYB102K50
	C 749 (A,23 ,250)		CKSRYB105K6R3
	C 750 (A,27 ,250)		CKSRYB102K50
	C 751 (B,51 ,127)	CAPACITOR(TANTARIUM)	VCH1258
	C 752 (B,15 ,130)	CAPACITOR(TANTARIUM)	VCH1258
	C 753 (B,41 ,129)		CKSRYF105Z10
	C 754 (B,38 ,129)		CKSRYF105Z10
	C 755 (B,28 ,129)		CKSRYF105Z10
	C 756 (B,25 ,129)		CKSRYF105Z10
	C 757 (B,13 ,125)		CKSRYF105Z10
	C 758 (B,13 ,122)		CKSRYF105Z10
	C 759 (B,50 ,120)		CKSRYF105Z10
	C 760 (B,50 ,116)		CKSRYF105Z10
	C 761 (B,14 ,115)		CKSRYF105Z10
	C 762 (B,14 ,112)		CKSRYF105Z10
	C 763 (B,50 ,112)		CKSRYF105Z10
	C 764 (B,50 ,109)		CKSRYF105Z10
	C 765 (B,14 ,108)		CKSRYF105Z10
	C 767 (B,8 ,144)		CKSRYF105Z10
	C 769 (B,50 ,105)		CKSRYF105Z10
	C 770 (B,50 ,102)		CKSRYF105Z10
	C 771 (B,13 ,103)		CKSRYF105Z10
	C 772 (B,13 ,99)		CKSRYF105Z10
	C 773 (B,44 ,93)		CKSRYF105Z10
	C 774 (B,41 ,93)		CKSRYF105Z10
	C 775 (B,37 ,93)		CKSRYF105Z10
	C 776 (B,33 ,93)		CKSRYF105Z10
	C 777 (B,28 ,93)		CKSRYF105Z10
	C 778 (B,25 ,93)		CKSRYF105Z10
	C 779 (B,20 ,93)		CKSRYF105Z10
	C 780 (B,17 ,93)		CKSRYF105Z10
	C 781 (B,9 ,69)	CAPACITOR(TANTARIUM)	VCH1258
	C 782 (B,11 ,72)		CKSRYF105Z10
	C 783 (B,20 ,72)		CKSRYF105Z10
	C 784 (B,16 ,72)		CKSRYF105Z10
	C 785 (B,7 ,88)		CKSRYF105Z10
	C 786 (B,11 ,88)		CKSRYF105Z10
	C 787 (B,15 ,88)		CKSRYF105Z10

Mark	No.	Description	Part No.
	C 788 (B,18 ,88)		CKSRYF105Z10
	C 789 (B,30 ,88)		CKSRYF105Z10
	C 791 (B,34 ,134)		CKSRYF105Z10
	C 797 (B,28 ,138)		CKSRYF105Z10
	C 801 (B,48 ,44)		CKSRYF105Z10
	C 802 (A,26 ,59)		CKSRYF105Z10
	C 803 (A,23 ,60)	CAPACITOR(TANTARIUM)	VCH1258
	C 804 (A,30 ,56)		CKSRYF105Z10
	C 805 (B,37 ,51)		CKSRYF104Z25
	C 806 (A,35 ,56)		CKSRYF105Z10
	C 807 (A,30 ,58)		CKSRYF105Z10
	C 808 (A,27 ,54)		CKSRYF105Z10
	C 809 (A,18 ,45)		CKSRYF104Z25
	C 810 (A,26 ,46)		CKSRYF105Z10
	C 812 (A,27 ,40)		CKSRYF105Z10
	C 813 (A,33 ,35)		CKSRYF105Z10
	C 814 (A,44 ,37)		CKSRYF105Z10
	C 815 (A,45 ,34)	CAPACITOR(TANTARIUM)	VCH1258
	C 816 (A,50 ,38)		CKSRYF105Z10
	C 817 (B,45 ,39)	CAPACITOR(TANTARIUM)	VCH1258
	C 820 (B,54 ,36)		CKSRYB104K16
	C 821 (A,47 ,40)		CKSRYF104Z25
	C 822 (A,48 ,40)		CKSRYB102K50
	C 823 (A,47 ,45)		CKSRYF105Z10
	C 824 (A,51 ,56)		CKSRYF104Z25
	C 825 (A,43 ,57)		CKSRYF105Z10
	C 826 (B,48 ,93)	CAPACITOR(TANTARIUM)	VCH1258
	C 827 (B,41 ,91)		CKSRYF105Z10
	C 828 (B,13 ,37)		CKSRYF105Z10
	C 829 (B,11 ,39)	CAPACITOR(TANTARIUM)	VCH1258
	C 830 (B,16 ,41)		CKSRYF105Z10
	C 831 (B,19 ,30)		CKSRYF105Z10
	C 832 (B,19 ,42)		CKSRYB103K50
	C 833 (A,24 ,37)	CAPACITOR(TANTARIUM)	VCH1258
	C 834 (A,11 ,47)		CKSRYB105K6R3
	C 835 (A,8 ,51)		CKSRYB105K6R3
	C 836 (A,8 ,48)		CKSRYB683K16
	C 837 (A,15 ,50)		CKSRYF105Z10
	C 838 (A,11 ,58)	CHIP ELECT.CAPACITOR	CEVW221M4
	C 839 (A,36 ,81)		CKSRYF105Z10
	C 840 (A,21 ,93)		CKSRYF105Z10
	C 841 (A,15 ,82)		CKSRYF105Z10
	C 842 (A,10 ,71)	CAPACITOR(TANTARIUM)	VCH1258
	C 843 (A,18 ,20)		CKSRYF105Z10
	C 844 (A,24 ,25)		CKSRYB103K50
	C 845 (A,51 ,23)		CKSRYF105Z10
	C 846 (A,34 ,23)		CKSRYF105Z10
	C 847 (A,47 ,23)		CCSRCH221J50
	C 848 (A,29 ,23)		CCSRCH221J50
	C 849 (B,42 ,27)		CKSRYF104Z25
	C 850 (B,43 ,27)		CKSRYF104Z25
	C 856 (A,13 ,97)	CAPACITOR(TANTARIUM)	VCH1258
	C 857 (A,20 ,28)		CKSRYF104Z25
	C 901 (B,86 ,51)		CKSRYF105Z10
	C 903 (B,57 ,61)		CKSRYF105Z10
	C 904 (B,59 ,58)	CAPACITOR(TANTARIUM)	VCH1258
	C 905 (B,72 ,60)		CKSRYF105Z10
	C 906 (B,69 ,60)		CKSRYF105Z10
	C 907 (B,87 ,73)		CKSRYF105Z10
	C 908 (B,81 ,57)		CKSRYF105Z10

Mark	No.	Description	Part No.
C	909 (B,88 ,78)		CKSRYF105Z10
C	910 (B,88 ,73)		CKSRYF105Z10
C	911 (B,52 ,87)	CAPACITOR(TANTARIUM)	VCH1258
C	912 (B,52 ,90)		CKSRYF105Z10
C	913 (B,87 ,78)		CKSRYF105Z10
C	914 (B,66 ,90)		CKSRYF105Z10
C	915 (B,74 ,60)		CKSRYF105Z10
C	916 (B,61 ,79)		CKSRYF105Z10
C	917 (B,59 ,76)		CKSRYF105Z10
C	918 (B,65 ,93)		CKSRYF105Z10
C	919 (B,72 ,102)	CAPACITOR(TANTARIUM)	VCH1258
C	920 (B,59 ,73)		CKSRYF105Z10
C	921 (B,59 ,70)		CKSRYF105Z10
C	922 (B,59 ,67)		CKSRYF105Z10
C	923 (B,59 ,63)		CKSRYF105Z10
C	924 (B,89 ,69)		CKSRYF105Z10
C	925 (B,87 ,63)		CKSRYF105Z10
C	926 (B,78 ,59)		CKSRYF105Z10
C	927 (B,74 ,58)		CKSRYF105Z10
C	928 (B,72 ,58)		CKSRYF105Z10
C	929 (B,69 ,58)		CKSRYF105Z10
C	930 (B,93 ,59)	CAPACITOR(TANTARIUM)	VCH1258
C	931 (B,94 ,40)		CKSRYF105Z10
C	932 (B,96 ,38)	CAPACITOR(TANTARIUM)	VCH1258
C	933 (B,66 ,51)		CKSRYF105Z10
C	934 (A,93 ,36)		CKSRYF105Z10
C	935 (B,69 ,51)		CKSRYF105Z10
C	936 (A,93 ,34)		CKSRYF105Z10
C	937 (B,72 ,51)		CKSRYF105Z10
C	939 (B,89 ,51)		CKSRYF105Z10
C	941 (A,106 ,53)		CCSRCH331J50
C	942 (A,107 ,39)		CCSRCH331J50
C	943 (B,101 ,255)		CCSRCH331J50
C	944 (B,51 ,255)		CCSRCH331J50
C	945 (A,107 ,46)		CCSRCH331J50
C	946 (B,111 ,33)		CCSRCH331J50
C	947 (A,106 ,50)		CCSRCH331J50
C	948 (A,106 ,33)		CCSRCH331J50
C	949 (B,74 ,51)		CKSRYF105Z10
C	951 (B,92 ,51)		CKSRYF105Z10
C	957 (B,89 ,34)		CKSRYF105Z10
C	958 (B,83 ,51)		CKSRYF105Z10
C	959 (B,86 ,34)		CKSRYF105Z10
C	960 (B,74 ,34)		CKSRYF105Z10
C	961 (B,70 ,34)		CKSRYF105Z10
C	963 (B,61 ,63)		CKSRYF105Z10
C	964 (B,61 ,67)		CKSRYF105Z10
C	965 (B,61 ,70)		CKSRYF105Z10
C	966 (B,61 ,73)		CKSRYF105Z10
C	967 (B,61 ,76)		CKSRYF105Z10
C	968 (B,59 ,79)		CKSRYF105Z10
C	971 (B,69 ,89)		CKSRYF105Z10
C	972 (B,73 ,94)		CKSRYB105K6R3
C	973 (B,97 ,84)		CKSRYB105K6R3
C	974 (B,100 ,84)	CAPACITOR(TANTARIUM)	VCH1258
C	975 (B,73 ,92)		CKSRYB105K6R3
C	976 (B,75 ,88)		CKSRYB105K6R3
C	977 (B,78 ,89)		CKSRYB105K6R3
C	978 (B,81 ,89)		CKSRYB105K6R3
C	979 (B,85 ,90)		CKSRYB105K6R3
C	980 (B,88 ,89)		CKSRYB105K6R3
C	981 (B,98 ,108)		CEVW101M16
C	982 (B,92 ,97)		CKSRYF105Z10
C	983 (B,88 ,94)		CKSRYF105Z10
C	986 (B,92 ,89)		CKSRYB105K6R3
C	987 (B,92 ,83)		CKSRYB105K6R3
C	988 (B,95 ,80)		CKSRYB105K6R3
C	989 (B,93 ,83)		CKSRYB102K50
C	990 (B,90 ,80)		CKSRYB102K50
C	991 (B,88 ,80)		CKSRYB105K6R3
C	992 (B,88 ,69)		CKSRYF105Z10
C	993 (B,88 ,63)		CKSRYF105Z10
C	1001(A,66 ,91)	CAPACITOR(TANTARIUM)	VCH1258
C	1002(A,67 ,88)		CKSRYF105Z10
C	1003(A,75 ,93)	CAPACITOR(TANTARIUM)	VCH1258
C	1004(A,81 ,90)		CKSRYF105Z10
C	1005(A,76 ,90)		CKSRYF105Z10
C	1006(A,80 ,81)		CKSRYF105Z10
C	1007(A,83 ,81)		CKSRYF105Z10
C	1009(A,85 ,83)		CKSRYB334K10
C	1010(A,85 ,77)		CKSRYF105Z10
C	1011(A,80 ,76)		CKSRYF105Z10
C	1012(A,79 ,73)		CKSRYF105Z10
C	1013(A,67 ,63)		CKSRYF105Z10
C	1014(A,63 ,63)		CKSRYF105Z10
C	1017(A,55 ,69)		CKSRYF105Z10
C	1018(A,55 ,74)		CKSRYF105Z10
C	1019(A,55 ,78)		CKSRYF105Z10
C	1020(A,67 ,86)		CKSRYF105Z10
C	1021(A,70 ,86)		CKSRYF105Z10
C	1022(A,79 ,66)		CKSRYF105Z10
C	1051(A,83 ,50)	CAPACITOR(TANTARIUM)	VCH1258
C	1052(A,80 ,53)		CKSRYF105Z10
C	1053(A,80 ,49)		CKSRYF105Z10
C	1054(A,80 ,46)		CKSRYF105Z10
C	1055(A,77 ,35)		CKSRYF105Z10
C	1056(A,69 ,35)		CKSRYF105Z10
C	1057(A,73 ,35)		CKSRYF105Z10
C	1058(A,62 ,38)		CKSRYF105Z10
C	1059(A,70 ,54)		CKSRYF105Z10
C	1060(A,62 ,50)		CKSRYF105Z10
C	1061(A,61 ,42)		CKSRYF105Z10
C	1066(A,62 ,22)		CKSRYF105Z10
C	1067(A,85 ,33)	CAPACITOR(TANTARIUM)	VCH1258
C	1068(A,73 ,34)		CKSRYB102K50
C	1069(A,69 ,34)		CKSRYB102K50
C	1070(B,81 ,24)		CKSRYF104Z25
C	1071(B,81 ,25)		CKSRYF104Z25
C	1073(A,80 ,43)		CKSRYF105Z10
C	1074(A,67 ,54)		CKSRYF105Z10
C	1075(A,60 ,54)		CKSRYF105Z10
C	1076(A,59 ,61)	CAPACITOR(TANTARIUM)	VCH1258
C	1078(A,61 ,43)		CKSRYF105Z10
C	1101(B,53 ,226)	CAPACITOR(TANTARIUM)	VCH1258
C	1103(B,81 ,223)		CKSRYF105Z10
C	1104(B,81 ,220)		CKSRYF105Z10
C	1105(B,81 ,217)		CKSRYF105Z10
C	1106(B,81 ,213)		CKSRYF105Z10
C	1107(B,72 ,203)		CKSRYF105Z10
C	1108(B,68 ,203)		CKSRYF105Z10

Mark	No.	Description	Part No.
	C 1109(B,66 ,201)		CKSRYF105Z10
	C 1110(B,63 ,203)		CKSRYF105Z10
	C 1111(B,54 ,206)		CKSRYF105Z10
	C 1112(B,54 ,210)		CKSRYB473K50
	C 1113(B,53 ,213)		CKSRYF105Z10
	C 1114(B,53 ,210)		CKSRYB103K50
	C 1115(B,48 ,210)	CAPACITOR(TANTARIUM)	VCH1258
	C 1116(B,51 ,210)		CKSRYF105Z10
	C 1117(B,45 ,213)		CKSRYF105Z10
	C 1118(B,51 ,219)		CKSRYF105Z10
	C 1119(B,54 ,219)		CKSRYF105Z10
	C 1120(B,54 ,223)		CKSRYF105Z10
	C 1121(B,58 ,229)		CKSRYF105Z10
	C 1122(B,61 ,229)		CKSRYF105Z10
	C 1123(B,64 ,229)		CKSRYF105Z10
	C 1124(B,68 ,229)		CKSRYF105Z10
	C 1125(B,71 ,229)		CKSRYF105Z10
	C 1126(B,74 ,229)		CKSRYF105Z10
	C 1127(B,85 ,202)		CKSRYF105Z10
	C 1128(B,49 ,193)		CKSRYF105Z10
	C 1129(B,82 ,218)		CKSRYF105Z10
	C 1130(B,89 ,227)	CAPACITOR(TANTARIUM)	VCH1258
	C 1131(B,48 ,187)	CAPACITOR(TANTARIUM)	VCH1258
	C 1132(B,45 ,185)		CKSRYF105Z10
	C 1133(B,42 ,183)		CKSRYF105Z10
	C 1134(B,37 ,183)		CKSRYF105Z10
	C 1135(B,33 ,183)		CKSRYF105Z10
	C 1136(B,25 ,183)		CKSRYF105Z10
	C 1137(B,32 ,199)		CKSRYF105Z10
	C 1138(B,39 ,199)		CKSRYF105Z10
	C 1140(A,28 ,182)		CKSRYF105Z10
	C 1143(A,30 ,185)		CKSRYF105Z10
	C 1146(A,25 ,188)		CKSRYF105Z10
	C 1147(A,29 ,188)		CKSRYF105Z10
	C 1148(A,32 ,188)		CKSRYF105Z10
	C 1149(A,37 ,188)		CKSRYF105Z10
	C 1152(A,49 ,194)		CKSRYF105Z10
	C 1155(A,49 ,200)		CKSRYF105Z10
	C 1156(A,52 ,201)	CAPACITOR(TANTARIUM)	VCH1258
	C 1157(A,49 ,209)		CKSRYF105Z10
	C 1158(A,44 ,219)		CKSRYF105Z10
	C 1159(A,41 ,219)		CKSRYF105Z10
	C 1160(A,34 ,219)		CKSRYF105Z10
	C 1161(A,30 ,219)		CKSRYF105Z10
	C 1162(A,23 ,220)		CKSRYF105Z10
	C 1163(A,20 ,220)	CAPACITOR(TANTARIUM)	VCH1258
	C 1164(A,26 ,219)		CKSRYF105Z10
	C 1165(A,41 ,221)		CKSRYF105Z10
	C 1166(A,44 ,224)	CAPACITOR(TANTARIUM)	VCH1258
	C 1167(A,14 ,216)	CAPACITOR(TANTARIUM)	VCH1258
	C 1168(A,17 ,215)		CKSRYB102K50
	C 1169(A,18 ,215)		CKSRYF105Z10
	C 1170(A,18 ,208)		CKSRYF105Z10
	C 1172(A,18 ,205)		CKSRYF105Z10
	C 1173(A,18 ,198)		CKSRYF105Z10
	C 1175(A,19 ,191)		CKSRYB103K50
	C 1176(A,16 ,197)		CKSRYF105Z10

Mark No. Description Part No.

B VJKB ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠	IC 4101(A,67 ,163)	REGULATOR IC (5.0V)	MM1565AF
	IC 4302(B,55 ,64)	DVD VIDEO AMP	LA73054
	IC 4601(A,68 ,124)	DVD VIDEO AMP	LA73054
	IC 4603(B,69 ,167)	VIDEO SW IC	MM1507XN
	Q 4301(A,33 ,145)	TRANSISTOR	UMD3N
	Q 4302(A,33 ,137)	TRANSISTOR	UMD3N
	Q 4303(A,88 ,104)	TRANSISTOR	UMD3N
	Q 4304(B,75 ,54)	TRANSISTOR	2SA1576A
	Q 4305(B,74 ,69)	TRANSISTOR	2SA1576A
	Q 4306(B,70 ,70)	TRANSISTOR	2SA1576A
	Q 4601(A,82 ,103)	TRANSISTOR	UMD3N
	Q 4602(A,78 ,108)	CHIP TRANSISTOR	DTC114YUA
	D 4101(B,67 ,149)	CHIP DIODE	RB501V-40
	D 4201(B,28 ,167)	DIODE	1SS355
	D 4301(A,88 ,108)	DIODE	DAN202K
	D 4609(A,83 ,108)	DIODE	DAN202K
	L 4401(B,31 ,57)	CHIP BEADS	VTL1089
	L 4402(B,31 ,41)	CHIP BEADS	VTL1089
	F 4301(A,82 ,64)	12MHZ LPF(VIDEO)	VTF1175
	F 4302(A,82 ,87)	12MHZ LPF(VIDEO)	VTF1175
	F 4303(A,72 ,91)	12MHZ LPF(VIDEO)	VTF1175
	JA4201(A,16 ,150)	JACK	RKN1004
	JA4202(A,16 ,160)	JACK	RKN1004
	JA4401(A,14 ,128)	JACK	VKB1135
	JA4403(A,14 ,59)	JACK	VKB1151
	KN4101(A,78 ,177)	WRAPPING TERMINAL	VNF1084
	KN4102(A,27 ,173)	WRAPPING TERMINAL	VNF1084
	KN4103(A,22 ,12)	WRAPPING TERMINAL	VNF1084
	KN4104(A,88 ,9)	WRAPPING TERMINAL	VNF1084
	CN4101(A,47 ,168)	23P CONNECTOR	VKN1427
	CN4402(A,14 ,97)	SOCKET	AKP7023
	CN4601(A,79 ,157)	CONNECTOR POST	B3B-PH
	CN4602(A,86 ,133)	19P CONNECTOR	VKN1250
	PCB BINDERVEF1040		

RESISTORS

Mark	No.	Description	Part No.
	R 4101(A,59 ,161)		RS1/10S0R0J
	R 4102(B,54 ,167)		RS1/16S223J
	R 4103(B,57 ,168)		RS1/16S103J
	R 4104(A,55 ,153)		RS1/10S0R0J
	R 4105(A,53 ,148)		RS1/10S0R0J
	R 4106(A,51 ,142)		RS1/10S0R0J
	R 4201(B,30 ,164)		RS1/16S0R0J
	R 4204(B,24 ,145)		RS1/16S0R0J
	R 4207(B,24 ,167)		RS1/16S0R0J
	R 4301(A,86 ,105)		RS1/16S103J
	R 4302(A,60 ,88)		RS1/10S0R0J
	R 4305(B,43 ,85)		RS1/16S0R0J
	R 4306(B,41 ,77)		RS1/16S0R0J
	R 4307(B,37 ,76)		RS1/16S0R0J
	R 4308(B,39 ,67)		RS1/16S0R0J
	R 4309(B,40 ,61)		RS1/16S0R0J
	R 4310(B,36 ,49)		RS1/16S0R0J
	R 4311(A,32 ,142)		RS1/16S152J
	R 4312(A,30 ,142)		RS1/16S102J
	R 4318(B,85 ,72)		RS1/16S3000D
	R 4319(B,77 ,49)		RS1/16S0R0J

Mark	No.	Description	Part No.
	R 4320(B,75 ,56)		RS1/16S182J
	R 4323(B,80 ,51)		RS1/16S2202F
	R 4325(B,74 ,93)		RS1/16S3000D
	R 4326(B,75 ,65)		RS1/16S182J
	R 4328(B,81 ,73)		RS1/16S2202F
	R 4330(B,81 ,68)		RS1/16S0R0J
	R 4332(B,68 ,90)		RS1/16S3000D
	R 4333(B,68 ,74)		RS1/16S182J
	R 4334(B,73 ,77)		RS1/16S2202F
	R 4336(B,72 ,74)		RS1/16S0R0J
	R 4401(B,24 ,133)		RS1/10S75R0F
	R 4402(B,25 ,120)		RS1/10S75R0F
	R 4403(B,28 ,101)		RS1/10S75R0F
	R 4404(B,30 ,108)		RS1/10S75R0F
	R 4405(B,33 ,111)		RS1/16S103J
	R 4406(B,29 ,87)		RS1/10S75R0F
	R 4407(B,31 ,92)		RS1/10S75R0F
	R 4408(B,34 ,91)		RS1/16S103J
	R 4409(B,31 ,69)		RS1/10S1R8J
	R 4410(B,28 ,56)		RS1/10S1R0J
	R 4412(B,29 ,41)		RS1/10S1R0J
	R 4414(B,26 ,71)	CHIP RESISTOR	RS1/10S68R0D
	R 4415(B,26 ,59)	CHIP RESISTOR	RS1/10S68R0D
	R 4416(B,26 ,44)	CHIP RESISTOR	RS1/10S68R0D
	R 4601(A,64 ,142)		RS1/10S0R0J
	R 4602(B,70 ,124)		RS1/16S0R0J
	R 4605(A,78 ,105)		RS1/16S222J
	R 4607(A,80 ,104)		RS1/16S103J
	R 4608(A,67 ,173)		RS1/10S0R0J
	R 4612(B,35 ,128)		RS1/16S0R0J
	R 4613(B,41 ,105)		RS1/16S0R0J
	R 4614(A,39 ,94)		RS1/16S0R0J
	R 4604(B,83 ,128)		RS1/10S3R3J
	R 4610(A,77 ,131)		RS1/10S3R3J

CAPACITORS

Mark	No.	Description	Part No.
	C 4107(A,59 ,154)		CEAT101M16
	C 4108(A,65 ,158)		CKSQYF105Z25
	C 4109(A,70 ,146)		CEAT221M6R3
	C 4110(A,69 ,156)		CKSQYB225K10
	C 4112(B,59 ,168)		CKSRYB102K50
	C 4201(B,23 ,155)		CCSRCH470J50
	C 4202(B,26 ,145)		CCSRCH470J50
	C 4206(B,21 ,167)		CKSRYF105Z10
	C 4303(B,53 ,93)		CKSRYB104K16
	C 4304(A,60 ,84)	ELECT. CAPACITOR	CEHAZA471M6R3
	C 4305(B,59 ,74)		CKSQYF104Z25
	C 4306(B,48 ,73)		CKSRYF105Z10
	C 4307(B,53 ,97)		CKSRYB104K16
	C 4308(B,53 ,100)		CKSRYB104K16
	C 4309(B,68 ,65)		CKSRYB104K16
	C 4311(B,39 ,64)		CKSRYF105Z10
	C 4312(B,68 ,61)		CKSRYB104K16
	C 4313(B,68 ,58)		CKSRYB104K16
	C 4314(A,60 ,52)	ELECT. CAPACITOR	CEHAZA471M6R3
	C 4315(B,62 ,55)		CKSQYF105Z16
	C 4316(A,31 ,135)		CKSRYF105Z10
	C 4317(B,75 ,59)		CKSRYF104Z25
	C 4318(B,82 ,51)		CCSRCH100D50
	C 4319(B,75 ,63)		CKSRYF104Z25
	C 4320(B,81 ,75)		CCSRCH100D50
	C 4321(B,68 ,78)		CKSRYF104Z25
	C 4322(B,74 ,74)		CCSRCH100D50
	C 4324(A,32 ,89)		CKSRYB102K50
	C 4325(A,79 ,58)		CCSRCH4R0C50
	C 4326(A,79 ,82)		CCSRCH4R0C50
	C 4327(A,69 ,84)		CCSRCH4R0C50
	C 4328(A,79 ,64)		CCSRCH7R0D50
	C 4329(A,79 ,87)		CCSRCH7R0D50
	C 4330(A,69 ,90)		CCSRCH7R0D50
	C 4401(A,36 ,124)	ELECT. CAPACITOR	CEAT102M6R3
	C 4403(A,36 ,115)	ELECT. CAPACITOR	CEAT102M6R3
	C 4405(A,37 ,103)	ELECT. CAPACITOR	CEAT102M6R3
	C 4406(B,35 ,108)		CKSRYF104Z25
	C 4408(A,37 ,81)	ELECT. CAPACITOR	CEAT102M6R3
	C 4409(B,34 ,93)		CKSRYF104Z25
	C 4413(A,37 ,73)	ELECT. CAPACITOR	CEAT102M6R3
	C 4414(A,36 ,61)	ELECT. CAPACITOR	CEAT471M6R3
	C 4417(A,36 ,45)	ELECT. CAPACITOR	CEAT471M6R3
	C 4602(A,80 ,145)		CKSRYF105Z10
	C 4603(B,89 ,152)		CKSRYF105Z10
	C 4604(A,63 ,138)	ELECT. CAPACITOR	CEHAZA471M6R3
	C 4621(A,53 ,130)		CKSRYB104K16
	C 4606(A,67 ,133)		CKSQYF104Z25
	C 4607(A,72 ,134)		CKSRYF105Z10
	C 4608(A,59 ,128)		CKSRYF104Z25
	C 4624(A,55 ,126)		CKSRYF104Z25
	C 4610(A,57 ,123)		CKSRYB104K16
	C 4622(A,56 ,120)		CKSRYF104Z25
	C 4612(A,72 ,115)		CKSRYF105Z10
	C 4623(A,58 ,117)		CKSRYB104K16
	C 4614(A,63 ,110)	ELECT. CAPACITOR	CEHAZA471M6R3
	C 4615(A,63 ,115)		CKSQYF105Z16
	C 4617(B,63 ,163)		CKSRYB104K16
	C 4618(B,70 ,162)		CKSQYF104Z25
	C 4619(B,65 ,163)		CKSRYF104Z25

B VJKB ASSY [VWV2150]

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠	IC 4101(A,67 ,163)	REGULATOR IC (5.0V)	MM1565AF
	IC 4302(B,55 ,64)	DVD VIDEO AMP	LA73054
	Q 4301(A,33 ,145)	TRANSISTOR	UMD3N
	Q 4302(A,33 ,137)	TRANSISTOR	UMD3N
	Q 4303(A,88 ,104)	TRANSISTOR	UMD3N
	Q 4304(B,75 ,54)	TRANSISTOR	2SA1576A
	Q 4305(B,74 ,69)	TRANSISTOR	2SA1576A
	Q 4306(B,70 ,70)	TRANSISTOR	2SA1576A
	D 4101(B,67 ,149)	CHIP DIODE	RB501V-40
	D 4201(B,28 ,167)	DIODE	1SS355
	D 4301(A,88 ,108)	DIODE	DAN202K
	L 4401(B,31 ,57)	CHIP BEADS	VTL1089
	L 4402(B,31 ,41)	CHIP BEADS	VTL1089
	L 4501(B,38 ,24)	CHIP BEADS	VTL1089
	L 4502(B,38 ,29)	CHIP BEADS	VTL1089
	F 4301(A,82 ,64)	12MHZ LPF(VIDEO)	VTF1175
	F 4302(A,82 ,87)	12MHZ LPF(VIDEO)	VTF1175
	F 4303(A,72 ,91)	12MHZ LPF(VIDEO)	VTF1175
	JA 4201(A,16 ,150)	JACK	RKN1004
	JA 4202(A,16 ,160)	JACK	RKN1004

Mark No.	Description	Part No.
JA4401(A,14,128)	JACK	VKB1135
JA4403(A,14,59)	JACK	VKB1151
KN4101(A,78,177)	WRAPPING TERMINAL	VNF1084
KN4102(A,27,173)	WRAPPING TERMINAL	VNF1084
KN4103(A,22,12)	WRAPPING TERMINAL	VNF1084
KN4104(A,88,9)	WRAPPING TERMINAL	VNF1084
CN4101(A,47,168)	23P CONNECTOR	VKN1427
CN4402(A,14,97)	SOCKET	AKP7023
CN4501(A,14,25)	D-SOCKET(14P)	VKB1232
	PCB BINDER	VEF1040

RESISTORS

Mark No.	Description	Part No.
R 4101(A,59,161)		RS1/10S0R0J
R 4102(B,54,167)		RS1/16S223J
R 4103(B,57,168)		RS1/16S103J
R 4104(A,55,153)		RS1/10S0R0J
R 4105(A,53,148)		RS1/10S0R0J
R 4106(A,51,142)		RS1/10S0R0J
R 4201(B,30,164)		RS1/16S0R0J
R 4204(B,24,145)		RS1/16S0R0J
R 4207(B,24,167)		RS1/16S0R0J
R 4301(A,86,105)		RS1/16S103J
R 4302(A,60,88)		RS1/10S0R0J
R 4305(B,43,85)		RS1/16S0R0J
R 4306(B,41,77)		RS1/16S0R0J
R 4307(B,37,76)		RS1/16S0R0J
R 4308(B,39,67)		RS1/16S0R0J
R 4309(B,40,61)		RS1/16S0R0J
R 4310(B,36,49)		RS1/16S0R0J
R 4311(A,32,142)		RS1/16S152J
R 4312(A,30,142)		RS1/16S102J
R 4318(B,85,72)		RS1/16S3000D
R 4319(B,77,49)		RS1/16S0R0J
R 4320(B,75,56)		RS1/16S182J
R 4323(B,80,51)		RS1/16S2202F
R 4325(B,74,93)		RS1/16S3000D
R 4326(B,75,65)		RS1/16S182J
R 4328(B,81,73)		RS1/16S2202F
R 4330(B,81,68)		RS1/16S0R0J
R 4332(B,68,90)		RS1/16S3000D
R 4333(B,68,74)		RS1/16S182J
R 4334(B,73,77)		RS1/16S2202F
R 4336(B,72,74)		RS1/16S0R0J
R 4401(B,24,133)		RS1/10S75R0F
R 4402(B,25,120)		RS1/10S75R0F
R 4403(B,28,101)		RS1/10S75R0F
R 4404(B,30,108)		RS1/10S75R0F
R 4405(B,33,111)		RS1/16S103J
R 4406(B,29,87)		RS1/10S75R0F
R 4407(B,31,92)		RS1/10S75R0F
R 4408(B,34,91)		RS1/16S103J
R 4409(B,31,69)		RS1/10S1R8J
R 4410(B,28,56)		RS1/10S1R0J
R 4412(B,29,41)		RS1/10S1R0J
R 4414(B,26,71)	CHIP RESISTOR	RS1/10S68R0D
R 4415(B,26,59)	CHIP RESISTOR	RS1/10S68R0D
R 4416(B,26,44)	CHIP RESISTOR	RS1/10S68R0D
R 4501(B,37,17)		RS1/10S1R8J

Mark No.	Description	Part No.
R 4502(B,36,24)		RS1/10S1R0J
R 4503(B,36,29)		RS1/10S1R0J
R 4506(B,27,12)		RS1/16S103J
R 4507(B,24,15)		RS1/16S103J
R 4508(B,34,16)	CHIP RESISTOR	RS1/10S68R0D
R 4509(B,33,23)	CHIP RESISTOR	RS1/10S68R0D
R 4510(B,33,30)	CHIP RESISTOR	RS1/10S68R0D

CAPACITORS

Mark No.	Description	Part No.
C 4107(A,59,154)		CEAT101M16
C 4108(A,65,158)		CKSQYF105Z25
C 4109(A,70,146)		CEAT221M6R3
C 4110(A,69,156)		CKSQYB225K10
C 4112(B,59,168)		CKSRYB102K50
C 4201(B,23,155)		CCSRCH470J50
C 4202(B,26,145)		CCSRCH470J50
C 4206(B,21,167)		CKSRYF105Z10
C 4303(B,53,93)		CKSRYB104K16
C 4304(A,60,84)	ELECT. CAPACITOR	CEHAZA471M6R3
C 4305(B,59,74)		CKSQYF104Z25
C 4306(B,48,73)		CKSRYF105Z10
C 4307(B,53,97)		CKSRYB104K16
C 4308(B,53,100)		CKSRYB104K16
C 4309(B,68,65)		CKSRYB104K16
C 4311(B,39,64)		CKSRYF105Z10
C 4312(B,68,61)		CKSRYB104K16
C 4313(B,68,58)		CKSRYB104K16
C 4314(A,60,52)	ELECT. CAPACITOR	CEHAZA471M6R3
C 4315(B,62,55)		CKSQYF105Z16
C 4316(A,31,135)		CKSRYF105Z10
C 4317(B,75,59)		CKSRYF104Z25
C 4318(B,82,51)		CCSRCH100D50
C 4319(B,75,63)		CKSRYF104Z25
C 4320(B,81,75)		CCSRCH100D50
C 4321(B,68,78)		CKSRYF104Z25
C 4322(B,74,74)		CCSRCH100D50
C 4324(A,32,89)		CKSRYB102K50
C 4325(A,79,58)		CCSRCH4R0C50
C 4326(A,79,82)		CCSRCH4R0C50
C 4327(A,69,84)		CCSRCH4R0C50
C 4328(A,79,64)		CCSRCH7R0D50
C 4329(A,79,87)		CCSRCH7R0D50
C 4330(A,69,90)		CCSRCH7R0D50
C 4401(A,36,124)	ELECT. CAPACITOR	CEAT102M6R3
C 4403(A,36,115)	ELECT. CAPACITOR	CEAT102M6R3
C 4405(A,37,103)	ELECT. CAPACITOR	CEAT102M6R3
C 4406(B,35,108)		CKSRYF104Z25
C 4408(A,37,81)	ELECT. CAPACITOR	CEAT102M6R3
C 4409(B,34,93)		CKSRYF104Z25
C 4413(A,37,73)	ELECT. CAPACITOR	CEAT102M6R3
C 4414(A,36,61)	ELECT. CAPACITOR	CEAT471M6R3
C 4417(A,36,45)	ELECT. CAPACITOR	CEAT471M6R3
C 4501(A,43,13)	ELECT. CAPACITOR	CEAT102M6R3
C 4503(A,43,20)	ELECT. CAPACITOR	CEAT471M6R3
C 4504(A,43,33)	ELECT. CAPACITOR	CEAT471M6R3

B VJKB ASSY [VWV2151]

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠	IC 4101(A,67 ,163)	REGULATOR IC (5.0V)	MM1565AF
	IC 4302(B,55 ,64)	DVD VIDEO AMP	LA73054
	Q 4301(A,33 ,145)	TRANSISTOR	UMD3N
	Q 4302(A,33 ,137)	TRANSISTOR	UMD3N
	Q 4303(A,88 ,104)	TRANSISTOR	UMD3N
	Q 4304(B,75 ,54)	TRANSISTOR	2SA1576A
	Q 4305(B,74 ,69)	TRANSISTOR	2SA1576A
	Q 4306(B,70 ,70)	TRANSISTOR	2SA1576A
	D 4101(B,67 ,149)	CHIP DIODE	RB501V-40
	D 4201(B,28 ,167)	DIODE	1SS355
	D 4301(A,88 ,108)	DIODE	DAN202K
	L 4401(B,31 ,57)	CHIP BEADS	VTL1089
	L 4402(B,31 ,41)	CHIP BEADS	VTL1089
	F 4301(A,82 ,64)	12MHZ LPF(VIDEO)	VTF1175
	F 4302(A,82 ,87)	12MHZ LPF(VIDEO)	VTF1175
	F 4303(A,72 ,91)	12MHZ LPF(VIDEO)	VTF1175
	JA4201(A,16 ,150)	JACK	RKN1004
	JA4202(A,16 ,160)	JACK	RKN1004
	JA4401(A,14 ,128)	JACK	VKB1135
	JA4403(A,14 ,59)	JACK	VKB1151
	KN4101(A,78 ,177)	WRAPPING TERMINAL	VNF1084
	KN4102(A,27 ,173)	WRAPPING TERMINAL	VNF1084
	KN4103(A,22 ,12)	WRAPPING TERMINAL	VNF1084
	KN4104(A,88 ,9)	WRAPPING TERMINAL	VNF1084
	CN4101(A,47 ,168)	23P CONNECTOR	VKN1427
	CN4402(A,14 ,97)	SOCKET	AKP7023
		PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
	R 4101(A,59 ,161)		RS1/10S0R0J
	R 4102(B,54 ,167)		RS1/16S223J
	R 4103(B,57 ,168)		RS1/16S103J
	R 4104(A,55 ,153)		RS1/10S0R0J
	R 4105(A,53 ,148)		RS1/10S0R0J
	R 4106(A,51 ,142)		RS1/10S0R0J
	R 4201(B,30 ,164)		RS1/16S0R0J
	R 4204(B,24 ,145)		RS1/16S0R0J
	R 4207(B,24 ,167)		RS1/16S0R0J
	R 4301(A,86 ,105)		RS1/16S103J
	R 4302(A,60 ,88)		RS1/10S0R0J
	R 4305(B,43 ,85)		RS1/16S0R0J
	R 4306(B,41 ,77)		RS1/16S0R0J
	R 4307(B,37 ,76)		RS1/16S0R0J
	R 4308(B,39 ,67)		RS1/16S0R0J
	R 4309(B,40 ,61)		RS1/16S0R0J
	R 4310(B,36 ,49)		RS1/16S0R0J
	R 4311(A,32 ,142)		RS1/16S152J
	R 4312(A,30 ,142)		RS1/16S102J
	R 4318(B,85 ,72)		RS1/16S3000D
	R 4319(B,77 ,49)		RS1/16S0R0J
	R 4320(B,75 ,56)		RS1/16S182J
	R 4323(B,80 ,51)		RS1/16S2202F
	R 4325(B,74 ,93)		RS1/16S3000D
	R 4326(B,75 ,65)		RS1/16S182J
	R 4328(B,81 ,73)		RS1/16S2202F
	R 4330(B,81 ,68)		RS1/16S0R0J
	R 4332(B,68 ,90)		RS1/16S3000D
	R 4333(B,68 ,74)		RS1/16S182J
	R 4334(B,73 ,77)		RS1/16S2202F
	R 4336(B,72 ,74)		RS1/16S0R0J
	R 4401(B,24 ,133)		RS1/10S75R0F
	R 4402(B,25 ,120)		RS1/10S75R0F
	R 4403(B,28 ,101)		RS1/10S75R0F
	R 4404(B,30 ,108)		RS1/10S75R0F
	R 4405(B,33 ,111)		RS1/16S103J
	R 4406(B,29 ,87)		RS1/10S75R0F
	R 4407(B,31 ,92)		RS1/10S75R0F
	R 4408(B,34 ,91)		RS1/16S103J
	R 4409(B,31 ,69)		RS1/10S1R8J
	R 4410(B,28 ,56)		RS1/10S1R0J
	R 4412(B,29 ,41)		RS1/10S1R0J
	R 4414(B,26 ,71)	CHIP RESISTOR	RS1/10S68R0D
	R 4415(B,26 ,59)	CHIP RESISTOR	RS1/10S68R0D
	R 4416(B,26 ,44)	CHIP RESISTOR	RS1/10S68R0D

CAPACITORS

Mark	No.	Description	Part No.
	C 4107(A,59 ,154)		CEAT101M16
	C 4108(A,65 ,158)		CKSQYF105Z25
	C 4109(A,70 ,146)		CEAT221M6R3
	C 4110(A,69 ,156)		CKSQYB225K10
	C 4112(B,59 ,168)		CKSRYB102K50
	C 4201(B,23 ,155)		CCSRCH470J50
	C 4202(B,26 ,145)		CCSRCH470J50
	C 4206(B,21 ,167)		CKSRYF105Z10
	C 4303(B,53 ,93)		CKSRYB104K16
	C 4304(A,60 ,84)	ELECT. CAPACITOR	CEHAZA471M6R3
	C 4305(B,59 ,74)		CKSQYF104Z25
	C 4306(B,48 ,73)		CKSRYF105Z10
	C 4307(B,53 ,97)		CKSRYB104K16
	C 4308(B,53 ,100)		CKSRYB104K16
	C 4309(B,68 ,65)		CKSRYB104K16
	C 4311(B,39 ,64)		CKSRYF105Z10
	C 4312(B,68 ,61)		CKSRYB104K16
	C 4313(B,68 ,58)		CKSRYB104K16
	C 4314(A,60 ,52)	ELECT. CAPACITOR	CEHAZA471M6R3
	C 4315(B,62 ,55)		CKSQYF105Z16
	C 4316(A,31 ,135)		CKSRYF105Z10
	C 4317(B,75 ,59)		CKSRYF104Z25
	C 4318(B,82 ,51)		CCSRCH100D50
	C 4319(B,75 ,63)		CKSRYF104Z25
	C 4320(B,81 ,75)		CCSRCH100D50
	C 4321(B,68 ,78)		CKSRYF104Z25
	C 4322(B,74 ,74)		CCSRCH100D50
	C 4324(A,32 ,89)		CKSRYB102K50
	C 4325(A,79 ,58)		CCSRCH4R0C50
	C 4326(A,79 ,82)		CCSRCH4R0C50
	C 4327(A,69 ,84)		CCSRCH4R0C50
	C 4328(A,79 ,64)		CCSRCH7R0D50
	C 4329(A,79 ,87)		CCSRCH7R0D50
	C 4330(A,69 ,90)		CCSRCH7R0D50
	C 4401(A,36 ,124)	ELECT. CAPACITOR	CEAT102M6R3
	C 4403(A,36 ,115)	ELECT. CAPACITOR	CEAT102M6R3
	C 4405(A,37 ,103)	ELECT. CAPACITOR	CEAT102M6R3
	C 4406(B,35 ,108)		CKSRYF104Z25
	C 4408(A,37 ,81)	ELECT. CAPACITOR	CEAT102M6R3
	C 4409(B,34 ,93)		CKSRYF104Z25
	C 4413(A,37 ,73)	ELECT. CAPACITOR	CEAT102M6R3
	C 4414(A,36 ,61)	ELECT. CAPACITOR	CEAT471M6R3
	C 4417(A,36 ,45)	ELECT. CAPACITOR	CEAT471M6R3

C AJKB ASSY [vwv2149]

MISCELLANEOUS

Mark	No.	Description	Part No.
	IC 3201(A,155 ,212)	IC	TC7SH08FUS1
	IC 3301(A,123 ,165)	D/A CONVERTER IC	PCM1738EG-3
	IC 3311(A,115 ,132)	IC	OPA2134PA
	IC 3321(A,140 ,132)	IC	OPA2134PA
	IC 3331(A,128 ,85)	IC	OPA2134PA
	IC 3401(A,167 ,114)	D/A CONVERTER IC	PCM1738EG-3
	IC 3402(B,154 ,106)	IC	TC7SH08FUS1
	IC 3411(B,177 ,93)	OP-AMP IC	NJM5532MD
	IC 3421(B,158 ,93)	OP-AMP IC	NJM5532MD
	IC 3431(B,167 ,70)	OP-AMP IC	NJM5532MD
	IC 3501(A,162 ,196)	D/A CONVERTER IC	PCM1738EG-3
	IC 3502(B,145 ,204)	IC	TC7SH08FUS1
	IC 3511(B,172 ,179)	OP-AMP IC	NJM5532MD
	IC 3521(B,153 ,179)	OP-AMP IC	NJM5532MD
	IC 3531(B,162 ,156)	OP-AMP IC	NJM5532MD
	IC 3601(A,183 ,60)	IC	TC74VHCU04FT
	Q 3351(B,119 ,51)	TRANSISTOR	2SD2114K
	Q 3352(A,132 ,35)	TRANSISTOR	2SD2114K
	Q 3353(B,140 ,51)	TRANSISTOR	2SD2114K
	Q 3361(B,128 ,51)	TRANSISTOR	2SD2114K
	Q 3362(B,128 ,38)	TRANSISTOR	2SD2114K
	Q 3363(B,140 ,56)	TRANSISTOR	2SD2114K
	Q 3371(A,105 ,67)	CHIP TRANSISTOR	UMH9N
	Q 3372(A,104 ,62)	TRANSISTOR	2SA1576A
	Q 3381(B,105 ,67)	CHIP TRANSISTOR	UMH9N
	Q 3382(B,104 ,62)	TRANSISTOR	2SA1576A
	Q 3451(B,143 ,37)	TRANSISTOR	2SD2114K
	Q 3461(B,135 ,37)	TRANSISTOR	2SD2114K
	Q 3471(A,147 ,58)	CHIP TRANSISTOR	UMH9N
	Q 3472(A,144 ,40)	TRANSISTOR	2SA1576A
	Q 3551(B,157 ,36)	TRANSISTOR	2SD2114K
	Q 3561(B,150 ,36)	TRANSISTOR	2SD2114K
	Q 3571(B,153 ,58)	CHIP TRANSISTOR	UMH9N
	Q 3572(B,151 ,54)	TRANSISTOR	2SA1576A
	L 3601(A,179 ,48)	COIL	VTL1172
	L 3602(A,179 ,36)	COIL	PTL1017
	F 3301(B,127 ,181)	CHIP BEADS	DTF1070
	F 3302(B,143 ,164)	CHIP BEADS	DTF1070
	F 3401(A,177 ,128)	CHIP BEADS	DTF1070
	F 3402(A,185 ,125)	CHIP BEADS	DTF1070
	F 3501(B,154 ,208)	CHIP BEADS	DTF1070
	F 3502(B,142 ,175)	CHIP BEADS	DTF1070
	F 3601(B,172 ,36)	CHIP MAGNET CORE	DTF1068
	F 3602(B,170 ,36)	CHIP BEADS	DTF1070
	F 3651	CHIP BEADS	DTF1070
	JA3301(A,107 ,19)	PIN JACK(2P)	AKB7104
	JA3401(A,139 ,19)	JACK	VKB1229
	JA3601(A,170 ,19)	PIN JACK(1P)	AKB7102
	JA3602(A,186 ,19)	OPT. LINK OUT	VKS1002
	KN3101(A,109 ,197)	WRAPPING TERMINAL	VNF1084
	KN3102(A,184 ,189)	WRAPPING TERMINAL	VNF1084
	CN3101(A,166 ,221)	31P CONNECTOR	VKN1517
	CN3102(A,179 ,145)	CONNECTOR	B6B-EH
	CN3351(A,146 ,50)	CONNECTOR POST	B3B-PH
		PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
	R 3101(B,140 ,71)		RS1/16S0R0J
	R 3102(A,157 ,125)	METAL OXIDE RESISTOR	RS3LMF181J
	R 3103(A,151 ,125)	METAL OXIDE RESISTOR	RS3LMF181J
	R 3110(A,185 ,222)		RS1/16S470J
	R 3111(A,179 ,216)		RS1/16S0R0J
	R 3112(A,178 ,213)		RS1/16S0R0J
	R 3113(A,177 ,216)		RS1/16S0R0J
	R 3114(A,176 ,213)		RS1/16S0R0J
	R 3115(A,175 ,216)		RS1/16S0R0J
	R 3116(A,174 ,213)		RS1/16S220J
	R 3117(A,173 ,216)		RS1/16S0R0J
	R 3118(A,149 ,216)		RS1/16S0R0J
	R 3121(A,172 ,213)		RS1/16S220J
	R 3122(A,170 ,216)		RS1/16S470J
	R 3123(A,168 ,216)		RS1/16S220J
	R 3124(A,166 ,216)		RS1/16S220J
	R 3125(A,164 ,216)		RS1/16S470J
	R 3126(A,162 ,216)		RS1/16S220J
	R 3127(A,160 ,216)		RS1/16S220J
	R 3128(A,158 ,216)		RS1/16S470J
	R 3129(A,156 ,216)		RS1/16S220J
	R 3130(A,154 ,216)		RS1/16S220J
	R 3131(A,152 ,216)		RS1/16S0R0J
	R 3202(A,153 ,212)		RS1/16S0R0J
	R 3203(A,149 ,211)		RS1/16S470J
	R 3302(A,117 ,190)		RS1/16S220J
	R 3303(A,115 ,190)		RS1/16S220J
	R 3304(A,123 ,158)	CARBON FILM RESISTOR	VCN1141
	R 3313(A,103 ,143)	CARBON FILM RESISTOR	VCN1140
	R 3314(A,119 ,143)	CARBON FILM RESISTOR	VCN1140
	R 3323(A,128 ,143)	CARBON FILM RESISTOR	VCN1140
	R 3324(A,144 ,143)	CARBON FILM RESISTOR	VCN1140
	R 3331(A,108 ,115)	CARBON FILM RESISTOR	VCN1138
	R 3332(A,116 ,115)	CARBON FILM RESISTOR	VCN1138
	R 3333(A,104 ,93)	CARBON FILM RESISTOR	VCN1138
	R 3334(A,107 ,93)	CARBON FILM RESISTOR	VCN1139
	R 3335(A,113 ,104)	CARBON FILM RESISTOR	VCN1139
	R 3336(A,120 ,115)	CARBON FILM RESISTOR	VCN1138
	R 3337(A,118 ,47)	CARBON FILM RESISTOR	VCN1136
	R 3341(A,139 ,115)	CARBON FILM RESISTOR	VCN1138
	R 3342(A,131 ,115)	CARBON FILM RESISTOR	VCN1138
	R 3343(A,143 ,93)	CARBON FILM RESISTOR	VCN1138
	R 3344(A,140 ,93)	CARBON FILM RESISTOR	VCN1139
	R 3345(A,134 ,104)	CARBON FILM RESISTOR	VCN1139
	R 3346(A,127 ,105)	CARBON FILM RESISTOR	VCN1138
	R 3347(A,129 ,57)	CARBON FILM RESISTOR	VCN1136
	R 3351(A,113 ,57)	CARBON FILM RESISTOR	VCN1137
	R 3352(A,135 ,35)		RS1/16S221J
	R 3353(B,136 ,50)		RS1/16S221J
	R 3354(A,120 ,44)	CARBON FILM RESISTOR	VCN1137
	R 3355(B,131 ,34)		RS1/16S221J
	R 3356(A,116 ,51)		RS1/16S102J
	R 3357(A,136 ,46)		RS1/16S102J
	R 3358(A,136 ,47)		RS1/16S102J
	R 3359(B,144 ,49)		RS1/16S0R0J
	R 3361(A,134 ,57)	CARBON FILM RESISTOR	VCN1137
	R 3362(A,129 ,37)		RS1/16S221J
	R 3363(B,136 ,57)		RS1/16S221J
	R 3364(A,136 ,44)	CARBON FILM RESISTOR	VCN1137

Mark	No.	Description	Part No.
R	3365(B,124 ,34)		RS1/16S221J
R	3366(A,127 ,47)		RS1/16S102J
R	3367(A,116 ,46)		RS1/16S102J
R	3368(A,131 ,49)		RS1/16S102J
R	3369(B,144 ,56)		RS1/16S0R0J
R	3371(A,107 ,71)		RS1/16S102J
R	3372(A,105 ,71)		RS1/16S472J
R	3373(A,109 ,71)		RS1/16S332J
R	3374(A,102 ,67)		RS1/16S103J
R	3381(B,108 ,71)		RS1/16S102J
R	3382(B,106 ,71)		RS1/16S472J
R	3383(B,110 ,66)		RS1/16S332J
R	3384(B,102 ,66)		RS1/16S103J
R	3401(B,168 ,100)		RN1/16SE1602D
R	3402(A,171 ,121)		RS1/16S220J
R	3403(A,171 ,123)		RS1/16S220J
R	3413(B,170 ,91)		RN1/16SE6200D
R	3414(B,184 ,91)		RN1/16SE6200D
R	3423(B,151 ,91)		RN1/16SE6200D
R	3424(B,165 ,91)		RN1/16SE6200D
R	3431(B,176 ,75)		RN1/16SE1201D
R	3432(B,173 ,82)		RN1/16SE1201D
R	3433(B,177 ,68)		RN1/16SE1201D
R	3434(B,177 ,72)	CHIP METAL FILM R	RN1/16SE1801D
R	3435(B,174 ,72)	CHIP METAL FILM R	RN1/16SE1801D
R	3436(B,169 ,82)		RN1/16SE1201D
R	3437(B,169 ,62)		RS1/16S223J
R	3441(B,158 ,76)		RN1/16SE1201D
R	3442(B,161 ,82)		RN1/16SE1201D
R	3443(B,157 ,68)		RN1/16SE1201D
R	3444(B,157 ,72)	CHIP METAL FILM R	RN1/16SE1801D
R	3445(B,160 ,72)	CHIP METAL FILM R	RN1/16SE1801D
R	3446(B,165 ,82)		RN1/16SE1201D
R	3447(B,165 ,62)		RS1/16S223J
R	3451(B,151 ,43)		RS1/16S221J
R	3452(B,142 ,34)		RS1/16S221J
R	3453(A,144 ,37)		RS1/16S102J
R	3461(B,151 ,46)		RS1/16S221J
R	3462(B,136 ,34)		RS1/16S221J
R	3463(A,141 ,37)		RS1/16S102J
R	3471(A,148 ,75)		RS1/16S102J
R	3472(A,148 ,68)		RS1/16S472J
R	3473(A,144 ,57)		RS1/16S332J
R	3474(A,147 ,37)		RS1/16S103J
R	3501(B,158 ,189)		RN1/16SE1602D
R	3502(A,165 ,205)		RS1/16S0R0J
R	3503(A,162 ,205)		RS1/16S0R0J
R	3513(B,165 ,177)		RN1/16SE6200D
R	3514(B,179 ,177)		RN1/16SE6200D
R	3523(B,146 ,177)		RN1/16SE6200D
R	3524(B,160 ,177)		RN1/16SE6200D
R	3531(B,171 ,161)		RS1/16S122J
R	3532(B,168 ,167)		RS1/16S122J
R	3533(B,172 ,153)		RS1/16S122J
R	3534(B,172 ,157)	CHIP METAL FILM R	RN1/16SE1801D
R	3535(B,169 ,157)	CHIP METAL FILM R	RN1/16SE1801D
R	3536(B,164 ,168)		RS1/16S122J
R	3537(B,167 ,50)		RS1/16S223J
R	3541(B,153 ,161)		RS1/16S122J
R	3542(B,156 ,168)		RS1/16S122J
R	3543(B,152 ,153)		RS1/16S122J
R	3544(B,152 ,157)	CHIP METAL FILM R	RN1/16SE1801D
R	3545(B,155 ,157)	CHIP METAL FILM R	RN1/16SE1801D
R	3546(B,160 ,167)		RS1/16S122J
R	3547(B,163 ,50)		RS1/16S223J
R	3551(B,164 ,37)		RS1/16S221J
R	3552(B,156 ,29)		RS1/16S221J
R	3553(A,160 ,42)		RS1/16S102J
R	3561(B,159 ,41)		RS1/16S221J
R	3562(B,150 ,29)		RS1/16S221J
R	3563(A,158 ,42)		RS1/16S102J
R	3571(B,153 ,62)		RS1/16S102J
R	3572(B,151 ,62)		RS1/16S472J
R	3573(B,146 ,65)		RS1/16S332J
R	3574(B,149 ,62)		RS1/16S103J
R	3601(A,188 ,75)		RS1/16S0R0J
R	3602(A,178 ,60)		RS1/16S0R0J
R	3603(A,182 ,55)		RS1/16S220J
R	3604(A,183 ,52)		RS1/16S470J
R	3605(B,181 ,42)		RS1/16S750J
R	3606(A,187 ,222)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	3101(A,171 ,145)	ELECT. CAPACITOR	CEHAZA102M6R3
C	3104(B,182 ,141)		CKSRYF105Z10
C	3105(A,141 ,63)	ELECT. CAPACITOR	VCH1249
C	3109(A,183 ,207)	ELECT. CAPACITOR	CEHAZA471M6R3
C	3110(B,188 ,213)		CKSRYF105Z10
C	3111(B,188 ,210)		CKSRYB102K50
C	3201(A,158 ,212)		CKSRYF105Z10
C	3301(A,122 ,176)	ELECT. CAPACITOR	CEHAZA471M6R3
C	3302(A,122 ,171)		CKSRYF105Z10
C	3303(A,140 ,166)		VCH1261
C	3305(A,135 ,161)		VCH1261
C	3306(A,112 ,161)		VCH1261
C	3307(A,129 ,171)		CKSRYF104Z25
C	3308(B,108 ,143)		CCSRCH331J50
C	3309(B,133 ,143)		CCSRCH331J50
C	3310(A,130 ,174)		CKSRYF104Z25
C	3311(A,105 ,125)		VCH1257
C	3312(B,108 ,130)		CKSRYF104Z25
C	3313(A,103 ,149)	PORYPROPYLENE FILM	CVCE1051
C	3314(A,116 ,149)	PORYPROPYLENE FILM	CVCE1051
C	3315(A,117 ,120)		VCH1257
C	3316(B,112 ,143)		CKSRYF104Z25
C	3321(A,130 ,125)		VCH1257
C	3322(B,133 ,130)		CKSRYF104Z25
C	3323(A,131 ,149)	PORYPROPYLENE FILM	CVCE1051
C	3324(A,144 ,149)	PORYPROPYLENE FILM	CVCE1051
C	3325(A,142 ,120)		VCH1257
C	3326(B,137 ,143)		CKSRYF104Z25
C	3331(A,114 ,80)		VCH1257
C	3333(A,104 ,99)	PORYPROPYLENE FILM	CVCE1052
C	3334(A,113 ,86)	PORYPROPYLENE FILM	CVCE1051
C	3335(A,116 ,99)	PORYPROPYLENE FILM	CVCE1051
C	3337(A,115 ,67)		VCH1255
C	3338(A,133 ,80)		VCH1257
C	3343(A,138 ,99)	PORYPROPYLENE FILM	CVCE1052
C	3344(A,134 ,86)	PORYPROPYLENE FILM	CVCE1051

Mark	No.	Description	Part No.
C	3345(A,126 ,99)	PORYPROPYLENE FILM	CVCE1051
C	3347(A,132 ,67)		VCH1255
C	3351(A,132 ,165)		CCH1510
C	3400(B,150 ,106)		CKSRYF104Z25
C	3401(A,163 ,125)	ELECT. CAPACITOR	VCH1248
C	3402(A,166 ,120)		CKSRYF105Z10
C	3403(A,183 ,112)	ELECT. CAPACITOR	VCH1249
C	3405(A,174 ,103)	ELECT. CAPACITOR	VCH1249
C	3406(A,165 ,103)	ELECT. CAPACITOR	VCH1249
C	3407(A,173 ,114)		CKSRYF104Z25
C	3408(B,179 ,98)		CCSRCH331J50
C	3409(B,160 ,98)		CCSRCH331J50
C	3410(A,173 ,117)		CKSRYF104Z25
C	3411(A,184 ,87)	ELECT. CAPACITOR	VCH1247
C	3412(B,181 ,87)		CKSRYF104Z25
C	3413(B,169 ,95)		CCSRCH471J50
C	3414(B,184 ,95)		CCSRCH471J50
C	3415(A,175 ,87)	ELECT. CAPACITOR	VCH1247
C	3416(B,174 ,98)		CKSRYF104Z25
C	3421(A,165 ,87)	ELECT. CAPACITOR	VCH1247
C	3422(B,162 ,87)		CKSRYF104Z25
C	3423(B,150 ,95)		CCSRCH471J50
C	3424(B,165 ,95)		CCSRCH471J50
C	3425(A,156 ,87)	ELECT. CAPACITOR	VCH1247
C	3426(B,155 ,98)		CKSRYF104Z25
C	3431(A,174 ,79)	ELECT. CAPACITOR	VCH1247
C	3433(B,174 ,76)		CCSRCH122J50
C	3434(B,174 ,68)		CCSRCH471J50
C	3435(B,169 ,74)		CCSRCH471J50
C	3437(A,171 ,65)	ELECT. CAPACITOR	CEANP470M16
C	3438(A,165 ,79)	ELECT. CAPACITOR	VCH1247
C	3443(B,160 ,76)		CCSRCH122J50
C	3444(B,160 ,68)		CCSRCH471J50
C	3445(B,165 ,74)		CCSRCH471J50
C	3447(A,163 ,65)	ELECT. CAPACITOR	CEANP470M16
C	3451(A,177 ,107)		CCH1510
C	3500(B,141 ,204)		CKSRYF105Z10
C	3501(A,152 ,205)	ELECT. CAPACITOR	VCH1248
C	3502(A,160 ,202)		CKSRYF105Z10
C	3503(A,150 ,188)	ELECT. CAPACITOR	VCH1249
C	3505(A,169 ,187)	ELECT. CAPACITOR	VCH1249
C	3506(A,160 ,187)	ELECT. CAPACITOR	VCH1249
C	3507(B,156 ,195)		CKSRYF104Z25
C	3508(B,155 ,183)		CCSRCH331J50
C	3509(B,174 ,183)		CCSRCH331J50
C	3510(A,168 ,199)		CKSRYF104Z25
C	3511(A,179 ,173)	ELECT. CAPACITOR	VCH1247
C	3512(B,176 ,172)		CKSRYF104Z25
C	3513(B,164 ,181)		CCSRCH471J50
C	3514(B,179 ,181)		CCSRCH471J50
C	3515(A,170 ,173)	ELECT. CAPACITOR	VCH1247
C	3516(B,169 ,183)		CKSRYF104Z25
C	3521(A,160 ,173)	ELECT. CAPACITOR	VCH1247
C	3522(B,157 ,172)		CKSRYF104Z25
C	3523(B,145 ,181)		CCSRCH471J50
C	3524(B,160 ,181)		CCSRCH471J50
C	3525(A,151 ,173)	ELECT. CAPACITOR	VCH1247
C	3526(B,150 ,183)		CKSRYF104Z25
C	3531(A,169 ,165)	ELECT. CAPACITOR	VCH1247
C	3533(B,169 ,161)		CCSRCH122J50

Mark	No.	Description	Part No.
C	3534(B,169 ,153)		CCSRCH471J50
C	3535(B,164 ,160)		CCSRCH471J50
C	3537(A,169 ,52)	ELECT. CAPACITOR	CEANP470M16
C	3538(A,160 ,165)	ELECT. CAPACITOR	VCH1247
C	3543(B,155 ,161)		CCSRCH122J50
C	3544(B,155 ,153)		CCSRCH471J50
C	3545(B,160 ,160)		CCSRCH471J50
C	3547(A,161 ,52)	ELECT. CAPACITOR	CEANP470M16
C	3551(A,174 ,190)		CCH1510
C	3601(A,189 ,196)	ELECT. CAPACITOR	VCH1248
C	3602(A,180 ,189)		CKSRYF104Z25
C	3603(A,188 ,34)	ELECT. CAPACITOR	VCH1249
C	3604(B,190 ,31)		CKSRYF105Z10
C	3605(B,189 ,36)		CKSRYB102K50
C	3606(A,187 ,70)	ELECT. CAPACITOR	VCH1247
C	3607(A,184 ,65)		CKSRYF105Z10
C	3608(A,184 ,64)		CKSRYB102K50
C	3609(A,182 ,52)		CKSRYB103K25
C	3610(A,177 ,57)	ELECT. CAPACITOR	VCH1249
C	3613(B,187 ,30)		CKSRYF104Z25
C	3615(B,174 ,26)		CKSRYF104Z25
C	3617(B,169 ,39)		CKSRYF104Z25
C	3618(B,184 ,44)		CKSRYF104Z25
C	3620(B,180 ,68)		CKSRYF104Z25
C	3621(B,185 ,50)		CKSRYF104Z25

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MISCELLANEOUS

IC	3201(A,155 ,212)	IC	TC7SH08FUS1
IC	3301(A,123 ,165)	D/A CONVERTER IC	PCM1738EG-3
IC	3311(A,115 ,132)	IC	OPA2134PA
IC	3321(A,140 ,132)	IC	OPA2134PA
IC	3331(A,128 ,85)	IC	OPA2134PA
IC	3401(A,167 ,114)	D/A CONVERTER IC	PCM1738EG-3
IC	3402(B,154 ,106)	IC	TC7SH08FUS1
IC	3411(B,177 ,93)	OP-AMP IC	NJM5532MD
IC	3421(B,158 ,93)	OP-AMP IC	NJM5532MD
IC	3431(B,167 ,70)	OP-AMP IC	NJM5532MD
IC	3501(A,162 ,196)	D/A CONVERTER IC	PCM1738EG-3
IC	3502(B,145 ,204)	IC	TC7SH08FUS1
IC	3511(B,172 ,179)	OP-AMP IC	NJM5532MD
IC	3521(B,153 ,179)	OP-AMP IC	NJM5532MD
IC	3531(B,162 ,156)	OP-AMP IC	NJM5532MD
IC	3601(A,183 ,60)	IC	TC74VHCU04FT
Q	3351(B,119 ,51)	TRANSISTOR	2SD2114K
Q	3352(A,132 ,35)	TRANSISTOR	2SD2114K
Q	3361(B,128 ,51)	TRANSISTOR	2SD2114K
Q	3362(B,128 ,38)	TRANSISTOR	2SD2114K
Q	3371(A,105 ,67)	CHIP TRANSISTOR	UMH9N
Q	3372(A,104 ,62)	TRANSISTOR	2SA1576A
Q	3381(B,105 ,67)	CHIP TRANSISTOR	UMH9N
Q	3382(B,104 ,62)	TRANSISTOR	2SA1576A
Q	3451(B,143 ,37)	TRANSISTOR	2SD2114K
Q	3461(B,135 ,37)	TRANSISTOR	2SD2114K
Q	3471(A,147 ,58)	CHIP TRANSISTOR	UMH9N
Q	3472(A,144 ,40)	TRANSISTOR	2SA1576A
Q	3551(B,157 ,36)	TRANSISTOR	2SD2114K
Q	3561(B,150 ,36)	TRANSISTOR	2SD2114K
Q	3571(B,153 ,58)	CHIP TRANSISTOR	UMH9N

Mark	No.	Description	Part No.
Q	3572(B,151,54)	TRANSISTOR	2SA1576A
L	3601(A,179,48)	COIL	VTL1172
L	3602(A,179,36)	COIL	PTL1017
F	3301(B,127,181)	CHIP BEADS	DTF1070
F	3302(B,143,164)	CHIP BEADS	DTF1070
F	3401(A,177,128)	CHIP BEADS	DTF1070
F	3402(A,185,125)	CHIP BEADS	DTF1070
F	3501(B,154,208)	CHIP BEADS	DTF1070
F	3502(B,142,175)	CHIP BEADS	DTF1070
F	3601(B,172,36)	CHIP MAGNET CORE	DTF1068
F	3602(B,170,36)	CHIP BEADS	DTF1070
F	3651	CHIP BEADS	DTF1070
	JA3301(A,107,19)	PIN JACK(2P)	AKB7104
	JA3401(A,139,19)	JACK	VKB1229
	JA3601(A,170,19)	PIN JACK(1P)	AKB7102
	JA3602(A,186,19)	OPT. LINK OUT	VKS1002
	KN3101(A,109,197)	WRAPPING TERMINAL	VNF1084
	KN3102(A,184,189)	WRAPPING TERMINAL	VNF1084
	CN3101(A,166,221)	31P CONNECTOR	VKN1517
	CN3102(A,179,145)	CONNECTOR	B6B-EH
		PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	3101(B,140,71)		RS1/16S0R0J
R	3102(A,157,125)	METAL OXIDE RESISTOR	RS3LMF181J
R	3103(A,151,125)	METAL OXIDE RESISTOR	RS3LMF181J
R	3110(A,185,222)		RS1/16S470J
R	3111(A,179,216)		RS1/16S0R0J
R	3112(A,178,213)		RS1/16S0R0J
R	3113(A,177,216)		RS1/16S0R0J
R	3114(A,176,213)		RS1/16S0R0J
R	3115(A,175,216)		RS1/16S0R0J
R	3116(A,174,213)		RS1/16S220J
R	3117(A,173,216)		RS1/16S0R0J
R	3118(A,149,216)		RS1/16S0R0J
R	3121(A,172,213)		RS1/16S220J
R	3122(A,170,216)		RS1/16S470J
R	3123(A,168,216)		RS1/16S220J
R	3124(A,166,216)		RS1/16S220J
R	3125(A,164,216)		RS1/16S470J
R	3126(A,162,216)		RS1/16S220J
R	3127(A,160,216)		RS1/16S220J
R	3128(A,158,216)		RS1/16S470J
R	3129(A,156,216)		RS1/16S220J
R	3130(A,154,216)		RS1/16S220J
R	3131(A,152,216)		RS1/16S0R0J
R	3202(A,153,212)		RS1/16S0R0J
R	3203(A,149,211)		RS1/16S470J
R	3302(A,117,190)		RS1/16S220J
R	3303(A,115,190)		RS1/16S220J
R	3304(A,123,158)	CARBON FILM RESISTOR	VCN1141
R	3313(A,103,143)	CARBON FILM RESISTOR	VCN1140
R	3314(A,119,143)	CARBON FILM RESISTOR	VCN1140
R	3323(A,128,143)	CARBON FILM RESISTOR	VCN1140
R	3324(A,144,143)	CARBON FILM RESISTOR	VCN1140
R	3331(A,108,115)	CARBON FILM RESISTOR	VCN1138
R	3332(A,116,115)	CARBON FILM RESISTOR	VCN1138
R	3333(A,104,93)	CARBON FILM RESISTOR	VCN1138
R	3334(A,107,93)	CARBON FILM RESISTOR	VCN1139
R	3335(A,113,104)	CARBON FILM RESISTOR	VCN1139
R	3336(A,120,115)	CARBON FILM RESISTOR	VCN1138
R	3337(A,118,47)	CARBON FILM RESISTOR	VCN1136
R	3341(A,139,115)	CARBON FILM RESISTOR	VCN1138
R	3342(A,131,115)	CARBON FILM RESISTOR	VCN1138
R	3343(A,143,93)	CARBON FILM RESISTOR	VCN1138
R	3344(A,140,93)	CARBON FILM RESISTOR	VCN1139
R	3345(A,134,104)	CARBON FILM RESISTOR	VCN1139
R	3346(A,127,105)	CARBON FILM RESISTOR	VCN1138
R	3347(A,129,57)	CARBON FILM RESISTOR	VCN1136
R	3351(A,113,57)	CARBON FILM RESISTOR	VCN1137
R	3352(A,135,35)		RS1/16S221J
R	3354(A,120,44)	CARBON FILM RESISTOR	VCN1137
R	3355(B,131,34)		RS1/16S221J
R	3356(A,116,51)		RS1/16S102J
R	3357(A,136,46)		RS1/16S102J
R	3361(A,134,57)	CARBON FILM RESISTOR	VCN1137
R	3362(A,129,37)		RS1/16S221J
R	3364(A,136,44)	CARBON FILM RESISTOR	VCN1137
R	3365(B,124,34)		RS1/16S221J
R	3366(A,127,47)		RS1/16S102J
R	3367(A,116,46)		RS1/16S102J
R	3371(A,107,71)		RS1/16S102J
R	3372(A,105,71)		RS1/16S472J
R	3373(A,109,71)		RS1/16S332J
R	3374(A,102,67)		RS1/16S103J
R	3381(B,108,71)		RS1/16S102J
R	3382(B,106,71)		RS1/16S472J
R	3383(B,110,66)		RS1/16S332J
R	3384(B,102,66)		RS1/16S103J
R	3401(B,168,100)		RN1/16SE1602D
R	3402(A,171,121)		RS1/16S220J
R	3403(A,171,123)		RS1/16S220J
R	3413(B,170,91)		RN1/16SE6200D
R	3414(B,184,91)		RN1/16SE6200D
R	3423(B,151,91)		RN1/16SE6200D
R	3424(B,165,91)		RN1/16SE6200D
R	3431(B,176,75)		RN1/16SE1201D
R	3432(B,173,82)		RN1/16SE1201D
R	3433(B,177,68)		RN1/16SE1201D
R	3434(B,177,72)	CHIP METAL FILM R	RN1/16SE1801D
R	3435(B,174,72)	CHIP METAL FILM R	RN1/16SE1801D
R	3436(B,169,82)		RN1/16SE1201D
R	3437(B,169,62)		RS1/16S223J
R	3441(B,158,76)		RN1/16SE1201D
R	3442(B,161,82)		RN1/16SE1201D
R	3443(B,157,68)		RN1/16SE1201D
R	3444(B,157,72)	CHIP METAL FILM R	RN1/16SE1801D
R	3445(B,160,72)	CHIP METAL FILM R	RN1/16SE1801D
R	3446(B,165,82)		RN1/16SE1201D
R	3447(B,165,62)		RS1/16S223J
R	3451(B,151,43)		RS1/16S221J
R	3452(B,142,34)		RS1/16S221J
R	3453(A,144,37)		RS1/16S102J
R	3461(B,151,46)		RS1/16S221J
R	3462(B,136,34)		RS1/16S221J
R	3463(A,141,37)		RS1/16S102J
R	3471(A,148,75)		RS1/16S102J
R	3472(A,148,68)		RS1/16S472J
R	3473(A,144,57)		RS1/16S332J

Mark	No.	Description	Part No.
R	3474(A,147 ,37)		RS1/16S103J
R	3501(B,158 ,189)		RN1/16SE1602D
R	3502(A,165 ,205)		RS1/16S0R0J
R	3503(A,162 ,205)		RS1/16S0R0J
R	3513(B,165 ,177)		RN1/16SE6200D
R	3514(B,179 ,177)		RN1/16SE6200D
R	3523(B,146 ,177)		RN1/16SE6200D
R	3524(B,160 ,177)		RN1/16SE6200D
R	3531(B,171 ,161)		RS1/16S122J
R	3532(B,168 ,167)		RS1/16S122J
R	3533(B,172 ,153)		RS1/16S122J
R	3534(B,172 ,157)	CHIP METAL FILM R	RN1/16SE1801D
R	3535(B,169 ,157)	CHIP METAL FILM R	RN1/16SE1801D
R	3536(B,164 ,168)		RS1/16S122J
R	3537(B,167 ,50)		RS1/16S223J
R	3541(B,153 ,161)		RS1/16S122J
R	3542(B,156 ,168)		RS1/16S122J
R	3543(B,152 ,153)		RS1/16S122J
R	3544(B,152 ,157)	CHIP METAL FILM R	RN1/16SE1801D
R	3545(B,155 ,157)	CHIP METAL FILM R	RN1/16SE1801D
R	3546(B,160 ,167)		RS1/16S122J
R	3547(B,163 ,50)		RS1/16S223J
R	3551(B,164 ,37)		RS1/16S221J
R	3552(B,156 ,29)		RS1/16S221J
R	3553(A,160 ,42)		RS1/16S102J
R	3561(B,159 ,41)		RS1/16S221J
R	3562(B,150 ,29)		RS1/16S221J
R	3563(A,158 ,42)		RS1/16S102J
R	3571(B,153 ,62)		RS1/16S102J
R	3572(B,151 ,62)		RS1/16S472J
R	3573(B,146 ,65)		RS1/16S332J
R	3574(B,149 ,62)		RS1/16S103J
R	3601(A,188 ,75)		RS1/16S0R0J
R	3602(A,178 ,60)		RS1/16S0R0J
R	3603(A,182 ,55)		RS1/16S220J
R	3604(A,183 ,52)		RS1/16S470J
R	3605(B,181 ,42)		RS1/16S750J
R	3606(A,187 ,222)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	3101(A,171 ,145)	ELECT. CAPACITOR	CEHAZA102M6R3
C	3104(B,182 ,141)		CKSRYF105Z10
C	3105(A,141 ,63)	ELECT. CAPACITOR	VCH1249
C	3109(A,183 ,207)	ELECT. CAPACITOR	CEHAZA471M6R3
C	3110(B,188 ,213)		CKSRYF105Z10
C	3111(B,188 ,210)		CKSRYB102K50
C	3201(A,158 ,212)		CKSRYF105Z10
C	3301(A,122 ,176)	ELECT. CAPACITOR	CEHAZA471M6R3
C	3302(A,122 ,171)		CKSRYF105Z10
C	3303(A,140 ,166)		VCH1261
C	3305(A,135 ,161)		VCH1261
C	3306(A,112 ,161)		VCH1261
C	3307(A,129 ,171)		CKSRYF104Z25
C	3308(B,108 ,143)		CCSRCH331J50
C	3309(B,133 ,143)		CCSRCH331J50
C	3310(A,130 ,174)		CKSRYF104Z25
C	3311(A,105 ,125)		VCH1257
C	3312(B,108 ,130)		CKSRYF104Z25
C	3313(A,103 ,149)	PORYPROPYLENE FILM	CVCE1051
C	3314(A,116 ,149)	PORYPROPYLENE FILM	CVCE1051
C	3315(A,117 ,120)		VCH1257
C	3316(B,112 ,143)		CKSRYF104Z25
C	3321(A,130 ,125)		VCH1257
C	3322(B,133 ,130)		CKSRYF104Z25
C	3323(A,131 ,149)	PORYPROPYLENE FILM	CVCE1051
C	3324(A,144 ,149)	PORYPROPYLENE FILM	CVCE1051
C	3325(A,142 ,120)		VCH1257
C	3326(B,137 ,143)		CKSRYF104Z25
C	3331(A,114 ,80)		VCH1257
C	3333(A,104 ,99)	PORYPROPYLENE FILM	CVCE1052
C	3334(A,113 ,86)	PORYPROPYLENE FILM	CVCE1051
C	3335(A,116 ,99)	PORYPROPYLENE FILM	CVCE1051
C	3337(A,115 ,67)		VCH1255
C	3338(A,133 ,80)		VCH1257
C	3343(A,138 ,99)	PORYPROPYLENE FILM	CVCE1052
C	3344(A,134 ,86)	PORYPROPYLENE FILM	CVCE1051
C	3345(A,126 ,99)	PORYPROPYLENE FILM	CVCE1051
C	3347(A,132 ,67)		VCH1255
C	3351(A,132 ,165)		CCH1510
C	3400(B,150 ,106)		CKSRYF104Z25
C	3401(A,163 ,125)	ELECT. CAPACITOR	VCH1248
C	3402(A,166 ,120)		CKSRYF105Z10
C	3403(A,183 ,112)	ELECT. CAPACITOR	VCH1249
C	3405(A,174 ,103)	ELECT. CAPACITOR	VCH1249
C	3406(A,165 ,103)	ELECT. CAPACITOR	VCH1249
C	3407(A,173 ,114)		CKSRYF104Z25
C	3408(B,179 ,98)		CCSRCH331J50
C	3409(B,160 ,98)		CCSRCH331J50
C	3410(A,173 ,117)		CKSRYF104Z25
C	3411(A,184 ,87)	ELECT. CAPACITOR	VCH1247
C	3412(B,181 ,87)		CKSRYF104Z25
C	3413(B,169 ,95)		CCSRCH471J50
C	3414(B,184 ,95)		CCSRCH471J50
C	3415(A,175 ,87)	ELECT. CAPACITOR	VCH1247
C	3416(B,174 ,98)		CKSRYF104Z25
C	3421(A,165 ,87)	ELECT. CAPACITOR	VCH1247
C	3422(B,162 ,87)		CKSRYF104Z25
C	3423(B,150 ,95)		CCSRCH471J50
C	3424(B,165 ,95)		CCSRCH471J50
C	3425(A,156 ,87)	ELECT. CAPACITOR	VCH1247
C	3426(B,155 ,98)		CKSRYF104Z25
C	3431(A,174 ,79)	ELECT. CAPACITOR	VCH1247
C	3433(B,174 ,76)		CCSRCH122J50
C	3434(B,174 ,68)		CCSRCH471J50
C	3435(B,169 ,74)		CCSRCH471J50
C	3437(A,171 ,65)	ELECT. CAPACITOR	CEANP470M16
C	3438(A,165 ,79)	ELECT. CAPACITOR	VCH1247
C	3443(B,160 ,76)		CCSRCH122J50
C	3444(B,160 ,68)		CCSRCH471J50
C	3445(B,165 ,74)		CCSRCH471J50
C	3447(A,163 ,65)	ELECT. CAPACITOR	CEANP470M16
C	3451(A,177 ,107)		CCH1510
C	3500(B,141 ,204)		CKSRYF105Z10
C	3501(A,152 ,205)	ELECT. CAPACITOR	VCH1248
C	3502(A,160 ,202)		CKSRYF105Z10
C	3503(A,150 ,188)	ELECT. CAPACITOR	VCH1249
C	3505(A,169 ,187)	ELECT. CAPACITOR	VCH1249
C	3506(A,160 ,187)	ELECT. CAPACITOR	VCH1249
C	3507(B,156 ,195)		CKSRYF104Z25
C	3508(B,155 ,183)		CCSRCH331J50

Mark	No.	Description	Part No.
	C 3509(B,174,183)		CCSRCH331J50
	C 3510(A,168,199)		CKSRYF104Z25
	C 3511(A,179,173)	ELECT. CAPACITOR	VCH1247
	C 3512(B,176,172)		CKSRYF104Z25
	C 3513(B,164,181)		CCSRCH471J50
	C 3514(B,179,181)		CCSRCH471J50
	C 3515(A,170,173)	ELECT. CAPACITOR	VCH1247
	C 3516(B,169,183)		CKSRYF104Z25
	C 3521(A,160,173)	ELECT. CAPACITOR	VCH1247
	C 3522(B,157,172)		CKSRYF104Z25
	C 3523(B,145,181)		CCSRCH471J50
	C 3524(B,160,181)		CCSRCH471J50
	C 3525(A,151,173)	ELECT. CAPACITOR	VCH1247
	C 3526(B,150,183)		CKSRYF104Z25
	C 3531(A,169,165)	ELECT. CAPACITOR	VCH1247
	C 3533(B,169,161)		CCSRCH122J50
	C 3534(B,169,153)		CCSRCH471J50
	C 3535(B,164,160)		CCSRCH471J50
	C 3537(A,169,52)	ELECT. CAPACITOR	CEANP470M16
	C 3538(A,160,165)	ELECT. CAPACITOR	VCH1247
	C 3543(B,155,161)		CCSRCH122J50
	C 3544(B,155,153)		CCSRCH471J50
	C 3545(B,160,160)		CCSRCH471J50
	C 3547(A,161,52)	ELECT. CAPACITOR	CEANP470M16
	C 3551(A,174,190)		CCH1510
	C 3601(A,189,196)	ELECT. CAPACITOR	VCH1248
	C 3602(A,180,189)		CKSRYF104Z25
	C 3603(A,188,34)	ELECT. CAPACITOR	VCH1249
	C 3604(B,190,31)		CKSRYF105Z10
	C 3605(B,189,36)		CKSRYB102K50
	C 3606(A,187,70)	ELECT. CAPACITOR	VCH1247
	C 3607(A,184,65)		CKSRYF105Z10
	C 3608(A,184,64)		CKSRYB102K50
	C 3609(A,182,52)		CKSRYB103K25
	C 3610(A,177,57)	ELECT. CAPACITOR	VCH1249
	C 3613(B,187,30)		CKSRYF104Z25
	C 3615(B,174,26)		CKSRYF104Z25
	C 3617(B,169,39)		CKSRYF104Z25
	C 3618(B,184,44)		CKSRYF104Z25
	C 3620(B,180,68)		CKSRYF104Z25
	C 3621(B,185,50)		CKSRYF104Z25

D SCRB ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	IC 901 (B,59,119)	VIDEO SW IC	MM1505XN
	IC 902 (B,65,51)	VIDEO SW IC	MM1507XN
	Q 901 (B,35,29)	TRANSISTOR	2SC4081
	Q 902 (B,48,17)	TRANSISTOR	2SC4081
	Q 904 (B,66,142)	TRANSISTOR	2SA1576A
	Q 905 (B,66,132)	TRANSISTOR	2SC4081
	D 901 (B,32,31)	DIODE	1SS355
	D 903 (B,49,24)	DIODE	1SS355
	D 905 (B,56,123)	DIODE	1SS355
	D 906 (B,54,126)	DIODE	1SS355
	D 907 (B,71,74)	DIODE	1SS355
	D 908 (B,66,74)	DIODE	1SS355
	D 909 (B,66,71)	DIODE	1SS355
	D 911 (B,63,69)	DIODE	1SS355
	D 912 (B,66,162)	DIODE	1SS355
	D 914 (B,68,165)	DIODE	1SS355
	D 915 (B,68,157)	DIODE	1SS355
	D 916 (B,65,155)	DIODE	1SS355
	D 999 (B,58,19)	DIODE	1SR154-400
	JA901 (A,12,61)	CONNECTOR	VKB1157
	JA901 (A,87,61)	CONNECTOR	VKB1157
	JA902 (A,12,145)	CONNECTOR	VKB1157
	JA902 (A,87,145)	CONNECTOR	VKB1157
	RY901 (A,51,54)	RELAY	VSR1017
	RY902 (A,51,29)	RELAY	VSR1017
	RY903 (A,53,138)	RELAY	VSR1017
	RY904 (A,57,80)	RELAY	VSR1017
	RY905 (A,51,164)	RELAY	VSR1017
	CN901 (A,62,15)	19P CONNECTOR	VKN1279

RESISTORS

Mark	No.	Description	Part No.
	R 902 (B,37,19)		RS1/16S103J
	R 903 (B,40,25)		RS1/16S182J
	R 904 (B,40,23)		RS1/16S182J
	R 905 (B,40,27)		RS1/16S182J
	R 906 (B,41,17)		RS1/16S153J
	R 909 (B,45,17)		RS1/16S472J
	R 911 (B,35,33)		RS1/16S563J
	R 912 (B,55,60)		RS1/16S221J
	R 916 (B,56,63)		RS1/16S221J
	R 919 (B,56,35)		RS1/16S221J
	R 923 (B,65,135)		RS1/16S223J
	R 924 (B,65,138)		RS1/16S122J
	R 927 (B,66,128)		RS1/16S472J
	R 928 (B,64,146)		RS1/16S563J
	R 929 (B,40,38)		RS1/16S221J
	R 932 (B,66,146)		RS1/10S75R0F
	R 936 (B,55,119)		RS1/10S1R5J
	R 937 (B,51,126)		RS1/10S75R0F
	R 943 (B,73,81)	CHIP TYPE RESISTER	RS1/10S68R0F
	R 950 (B,43,111)	CHIP TYPE RESISTER	RS1/10S68R0F
	R 955 (B,61,170)		RS1/10S75R0F
	R 965 (B,40,172)		RS1/10S75R0F
	R 970 (B,40,29)		RS1/16S182J
	R 971 (B,40,21)		RS1/16S182J

CAPACITORS

Mark	No.	Description	Part No.
	C 901 (B,56,24)		CKSRYF104Z25
	C 902 (B,35,32)		CKSRYF104Z25
	C 903 (B,22,125)		CCSRCH391J50
	C 904 (B,23,42)		CCSRCH221J50
	C 907 (B,48,29)		CKSRYF104Z25
	C 909 (B,56,14)		CKSRYF104Z25
	C 910 (B,24,38)		CCSRCH391J50
	C 913 (B,23,131)		CCSRCH391J50
	C 914 (B,23,50)		CCSRCH221J50
	C 916 (B,62,133)		CKSRYF104Z25
	C 917 (B,49,52)		CKSRYF104Z25
	C 921 (B,23,47)		CCSRCH391J50
	C 924 (B,23,69)		CKSRYF104Z25
	C 925 (B,49,136)		CKSRYF104Z25
	C 927 (B,80,54)		CCSRCH470J50
	C 928 (B,63,116)		CKSRYF104Z25
	C 929 (A,64,124)		CEAT101M10

Mark	No.	Description	Part No.
C	930 (A,53,121)		CEAT101M10
C	932 (B,23,134)		CCSRCH221J50
C	933 (B,20,124)		CCSRCH221J50
C	935 (B,69,28)		CKSRYF105Z10
C	936 (B,60,125)		CKSRYF104Z25
C	937 (A,67,77)		CEAT101M10
C	938 (B,74,50)		CKSRYF104Z25
C	939 (B,69,57)		CKSRYF104Z25
C	940 (B,61,50)		CKSRYF104Z25
C	941 (B,54,77)		CKSRYF104Z25
C	943 (A,62,104)		CEAT101M10
C	945 (B,50,161)		CKSRYF104Z25
C	946 (A,67,168)	ELECT. CAPACITOR	CEAT102M6R3
C	950 (B,22,120)		CKSRYF104Z25
C	953 (A,35,175)	ELECT. CAPACITOR	CEAT102M6R3

E FLKY ASSY [VWG2552]

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	2101(B,80,48)	FL CONTROL UCOM IC	PE5314C
IC	2102(B,63,29)	RESET IC	PST3228
IC	2103(A,259,30)	REMOTE RECEIVER UNIT	GP1UE27XK
Q	2101(B,115,60)	DIGITAL TRANSISTOR	DTC124EUA
Q	2102(B,116,51)	CHIP DIGITAL TRANS.	DTA124EUA
Q	2108(B,50,36)	DIGITAL TRANSISTOR	DTC124EUA
Q	2109(B,49,29)	CHIP DIGITAL TRANS.	DTA124EUA
D	2103(A,138,44)	LED(RED)	SLI-343URW(RST)
D	2104(A,127,44)	LED(BLUE)	SLR-343BBT(GHJ)
KN	2101(A,119,79)	WRAPPING TERMINAL	VNF1084
V	2101(A,245,49)	FL TUBE	VAW1089
S	2101(A,103,74)	SWITCH	VSG1024
S	2102(A,48,74)	SWITCH	VSG1024
S	2103(A,34,74)	SWITCH	VSG1024
S	2104(A,13,72)	SWITCH	VSG1024
S	2105(A,63,74)	SWITCH	VSG1024
S	2106(A,77,74)	SWITCH	VSG1024
X	2101(A,71,29)	CERAMIC RESONATOR	VSS1142
CN	2101(A,16,33)	17P CONNECTOR	VKN1277
CN	2102(A,304,37)	CONNECTOR 9P	09P-FJ
		FL SPACER 989	VEC2487

RESISTORS

Mark	No.	Description	Part No.
R	2105(B,92,79)		RS1/16S103J
R	2106(B,135,45)		RS1/16S0R0J
R	2107(B,75,63)		RS1/16S0R0J
R	2109(B,59,59)		RS1/16S0R0J
R	2110(B,63,59)		RS1/16S0R0J
R	2111(B,61,59)		RS1/16S0R0J
R	2113(B,71,69)		RS1/16S0R0J
R	2114(B,59,71)		RS1/16S103J
R	2115(B,57,75)		RS1/16S0R0J
R	2116(B,44,73)		RS1/16S122J
R	2117(B,36,75)		RS1/16S222J
R	2118(B,65,75)		RS1/16S272J
R	2119(B,72,73)		RS1/16S392J
R	2120(B,273,25)		RS1/16S0R0J
R	2121(B,69,69)		RS1/16S0R0J
R	2122(B,68,27)		RS1/16S103J
R	2123(B,73,69)		RS1/16S0R0J
R	2125(B,118,46)		RS1/10S182J
R	2126(B,61,46)		RS1/16S332J
R	2127(B,63,46)		RS1/16S472J
R	2128(B,59,48)		RS1/16S224J
R	2129(B,53,49)		RS1/16S0R0J
R	2130(B,254,25)		RS1/16S0R0J
R	2131(B,115,46)		RS1/10S182J
R	2132(B,137,49)		RS1/16S121J
R	2133(B,63,42)		RS1/16S101J
R	2134(B,67,37)		RS1/16S101J
R	2135(B,63,34)		RS1/16S101J
R	2136(B,63,32)		RS1/16S101J
R	2138(B,58,42)		RS1/16S103J
R	2139(B,58,38)		RS1/16S105J
R	2141(B,63,36)		RS1/16S105J
R	2142(B,59,34)		RS1/16S105J
R	2146(B,157,48)		RS1/16S0R0J
R	2151(B,77,68)		RS1/16S103J
R	2152(B,90,68)		RS1/16S103J
R	2155(B,47,41)		RS1/16S0R0J
R	2161(B,65,69)		RS1/16S103J
R	2162(B,151,48)		RS1/16S0R0J
R	2191(B,90,85)		RS1/16S103J
R	2194(B,63,40)		RS1/16S0R0J
R	2195(B,63,38)		RS1/16S101J
R	2196(B,73,33)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	2101(B,90,80)		CKSRYB102K50
C	2102(B,68,55)		CKSRYF105Z10
C	2103(B,59,75)		CKSRYB102K50
C	2104(A,272,28)		CEAL101M6R3
C	2105(B,21,39)		CKSRYF105Z10
C	2107(B,65,46)		CKSRYB102K50
C	2108(B,71,33)		CKSRYB102K50
C	2110(B,260,26)		CKSRYF105Z10
C	2111(B,56,42)		CKSRYB103K50
C	2113(B,94,51)		CKSRYF105Z10
C	2115(B,77,35)		CKSRYF105Z10
C	2116(B,94,48)		CKSRYB104K25
C	2120(A,23,71)		CEJQ101M6R3
C	2121(B,84,68)		CKSRYB102K50
C	2122(B,86,68)		CKSRYB102K50
C	2126(B,50,39)		CKSRYB102K50
C	2161(B,67,69)		CKSRYB102K50

E FLKY ASSY [VWG2554]

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	2101(B,80,48)	FL CONTROL UCOM	PE5314C
IC	2102(B,63,29)	RESET IC	PST3228
IC	2103(A,259,30)	REMOTE RECEIVER UNIT	GP1UE27XK
Q	2101(B,115,60)	DIGITAL TRANSISTOR	DTC124EUA
Q	2102(B,116,51)	CHIP DIGITAL TRANS.	DTA124EUA
Q	2108(B,50,36)	DIGITAL TRANSISTOR	DTC124EUA
Q	2109(B,49,29)	CHIP DIGITAL TRANS.	DTA124EUA
D	2103(A,138,44)	LED(RED)	SLI-343URW(RST)
D	2104(A,127,44)	LED(BLUE)	SLR-343BBT(GHJ)
KN	2101(A,119,79)	WRAPPING TERMINAL	VNF1084

Mark	No.	Description	Part No.
V	2101(A,245,49)	FL TUBE	VAW1089
S	2101(A,103,74)	SWITCH	VSG1024
S	2102(A,48,74)	SWITCH	VSG1024
S	2103(A,34,74)	SWITCH	VSG1024
S	2104(A,13,72)	SWITCH	VSG1024
S	2105(A,63,74)	SWITCH	VSG1024
S	2106(A,77,74)	SWITCH	VSG1024
X	2101(A,71,29)	CERAMIC RESONATOR	VSS1142
CN	2101(A,16,33)	17P CONNECTOR	VKN1277
CN	2102(A,304,37)	CONNECTOR 9P	09P-FJ
		FL SPACER 989	VEC2487

RESISTORS

Mark	No.	Description	Part No.
R	2105(B,92,79)		RS1/16S103J
R	2106(B,135,45)		RS1/16S0R0J
R	2107(B,75,63)		RS1/16S0R0J
R	2109(B,59,59)		RS1/16S0R0J
R	2110(B,63,59)		RS1/16S0R0J
R	2111(B,61,59)		RS1/16S0R0J
R	2113(B,71,69)		RS1/16S0R0J
R	2114(B,59,71)		RS1/16S103J
R	2115(B,57,75)		RS1/16S0R0J
R	2116(B,44,73)		RS1/16S122J
R	2117(B,36,75)		RS1/16S222J
R	2118(B,65,75)		RS1/16S272J
R	2119(B,72,73)		RS1/16S392J
R	2120(B,273,25)		RS1/16S0R0J
R	2121(B,69,69)		RS1/16S0R0J
R	2122(B,68,27)		RS1/16S103J
R	2123(B,73,69)		RS1/16S0R0J
R	2125(B,118,46)		RS1/10S182J
R	2126(B,61,46)		RS1/16S682J
R	2127(B,63,46)		RS1/16S272J
R	2128(B,59,48)		RS1/16S224J
R	2129(B,53,49)		RS1/16S0R0J
R	2130(B,254,25)		RS1/16S0R0J
R	2131(B,115,46)		RS1/10S182J
R	2132(B,137,49)		RS1/16S121J
R	2133(B,63,42)		RS1/16S101J
R	2134(B,67,37)		RS1/16S101J
R	2135(B,63,34)		RS1/16S101J
R	2136(B,63,32)		RS1/16S101J
R	2138(B,58,42)		RS1/16S103J
R	2139(B,58,38)		RS1/16S105J
R	2141(B,63,36)		RS1/16S105J
R	2142(B,59,34)		RS1/16S105J
R	2146(B,157,48)		RS1/16S0R0J
R	2151(B,77,68)		RS1/16S103J
R	2152(B,90,68)		RS1/16S103J
R	2155(B,47,41)		RS1/16S0R0J
R	2161(B,65,69)		RS1/16S103J
R	2162(B,151,48)		RS1/16S0R0J
R	2191(B,90,85)		RS1/16S103J
R	2194(B,63,40)		RS1/16S0R0J
R	2195(B,63,38)		RS1/16S101J
R	2196(B,73,33)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	2101(B,90,80)		CKSRYB102K50
C	2102(B,68,55)		CKSRYF105Z10
C	2103"(B,59,75)	"	CKSRYB102K50
C	2104(A,272,28)		CEAL101M6R3
C	2105(B,21,39)		CKSRYF105Z10
C	2107(B,65,46)		CKSRYB102K50
C	2108(B,71,33)		CKSRYB102K50
C	2110(B,260,26)		CKSRYF105Z10
C	2111(B,56,42)		CKSRYB103K50
C	2113(B,94,51)		CKSRYF105Z10
C	2115(B,77,35)		CKSRYF105Z10
C	2116(B,94,48)		CKSRYB104K25
C	2120(A,23,71)		CEJQ101M6R3
C	2121(B,84,68)		CKSRYB102K50
C	2122(B,86,68)		CKSRYB102K50
C	2126(B,50,39)		CKSRYB102K50
C	2161(B,67,69)		CKSRYB102K5

F KEYB ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
D	2201(A,201,79)	LED(RED)	SLR-343VC(NPQ)
D	2203(A,155,79)	LED(RED)	SLR-343VC(NPQ)
D	2204(A,138,79)	LED(RED)	SLR-343VC(NPQ)
J	2203(A,170,63)	CONNECTOR ASS'Y	PF05PG-C17
KN	2201(A,186,88)	WRAPPING TERMINAL	VNF1084
S	2201(A,135,89)	SWITCH	VSG1024
S	2202(A,152,89)	SWITCH	VSG1024
S	2204(A,172,89)	SWITCH	VSG1024
CN	2201(A,150,59)	CONNECTOR 9P	09R-FJ

RESISTORS

Mark	No.	Description	Part No.
R	2201(B,144,78)		RS1/16S101J
R	2202(B,159,74)		RS1/16S101J
R	2203(B,141,85)		RS1/16S122J
R	2204(B,143,87)		RS1/16S222J
R	2205(B,200,75)		RS1/16S181J
R	2220(B,169,83)		RS1/16S272J
R	2221(B,172,85)		RS1/16S392J

CAPACITORS

Mark	No.	Description	Part No.
C	2201(B,171,66)		CKSRYB103K50
C	2202(B,169,67)		CKSRYB103K50
C	2203(B,133,62)		CKSRYF105Z10

G MSWB ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
D	2301(B,315,71)	DIODE	1SS355
D	2302(B,321,71)	DIODE	1SS355
RY	2301(A,315,84)	POWER RELAY	VSR1018
S	2301(A,262,70)	POWER SWITCH	VSA1005
CN	2301(A,270,93)	CONNECTOR	S5B-PH
CN	2302(A,283,83)	AMP U-P CONNECTOR	VKN2024
CN	2303(A,255,89)	CONNECTOR	S2B-PH
CN	2304(A,309,85)	CONNECTOR	B2P3S-VH-BK

RESISTORS

Mark	No.	Description	Part No.
R	2301(B,263,88)		RS1/4SA102J
R	2302(B,263,86)		RS1/4SA102J

H POWER SUPPLY UNIT

OTHERS

Mark	No.	Description	Part No.
⚠	P301	PROTECTOR(800mA)	AEK7063
⚠	P201	PROTECTOR(1.6A)	AEK7066
⚠	P101,P202	PROTECTOR(2.0A)	AEK7067

I PS ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	IC 3801(A,86 ,197)	PROTECTOR(1A)	AEK7009
	IC 3802(A,81 ,208)	PROTECTOR(1A)	AEK7009
	IC 3803(A,21 ,203)	IC	NJM78M05FA
	Q 3801(A,28 ,186)	TRANSISTOR	2SC4883A
	Q 3802(A,33 ,226)	TRANSISTOR	2SA1859A
	Q 3803(A,48 ,202)	N-FET	2SK246
	Q 3804(A,53 ,210)	N-FET	2SK246
	Q 3805(B,36 ,193)	CHIP TRANSISTOR	2SC3906K
	Q 3806(B,36 ,219)	CHIP TRANSISTOR	2SA1514K
	D 3801(A,75 ,184)	SCHOTTKY DIODE	11EQS10
	D 3802(A,78 ,184)	SCHOTTKY DIODE	11EQS10
	D 3803(A,75 ,224)	SCHOTTKY DIODE	11EQS10
	D 3804(A,78 ,224)	SCHOTTKY DIODE	11EQS10
	D 3805(B,37 ,203)	DIODE	UDZS12(B)
	D 3806(B,37 ,210)	DIODE	UDZS12(B)
	D 3807(B,29 ,203)	CHIP DIODE	RB501V-40
	D 3808(B,29 ,210)	CHIP DIODE	RB501V-40
	D 3809(B,12 ,208)	CHIP DIODE	RB501V-40
	J 3801(A,7 ,200)	6P CONNECTOR ASS'Y	VKP2363
	CN3801(A,90 ,210)	CONNECTOR	B3P-VH
		HEAT SINK	VNH1073
		C CUSION	VEB1375
		PCB BINDER	VEF1040
		SCREW	PMH30P080FCC
		HEAT SINK	VNH1074

RESISTORS

Mark	No.	Description	Part No.
	R 3801(A,76 ,200)	CARBON FILM RESISTOR	RD1/4MUF4R7J
	R 3803(B,40 ,194)		RS1/16S331J
	R 3804(B,40 ,218)		RS1/16S331J
	R 3805(B,31 ,191)		RS1/16S681J
	R 3806(B,30 ,220)		RS1/16S681J

CAPACITORS

Mark	No.	Description	Part No.
	C 3801(A,74 ,209)	AUDIO FILM CAPACITOR	ACE7063
	C 3802(A,81 ,214)	AUDIO FILM CAPACITOR	ACE7063
	C 3803(A,63 ,189)		VCH1254
	C 3804(A,63 ,214)		VCH1254
	C 3805(A,42 ,199)	ELECT. CAPACITOR	VCH1247
	C 3806(A,42 ,208)	ELECT. CAPACITOR	VCH1247
	C 3807(A,33 ,198)		VCH1257
	C 3808(A,33 ,210)		VCH1257
	C 3809(B,20 ,206)		CKSRYB104K16
	C 3810(A,15 ,209)	ELECT. CAPACITOR	CEHAZA101M10

J PLED ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	D 2351(A,313,30)	LED(BLUE)	SLR-343BBT(GHJ)
	J 2351(A,317,22)	CONNECTOR ASS'Y	PF02PG-B07

RESISTORS

Mark	No.	Description	Part No.
	R 2351(B,318,27)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
	C 2351(B,316,35)		CKSRYB104K25
	C 2352(A,319,36)	ELECT. CAPACITOR	CEHAZA220M16

K LOAB ASSY [VWG2426]

SWITCHES and RELAYS

Mark	No.	Description	Part No.
	S101	REAF SWITCH	VSK1011

OTHERS

Mark	No.	Description	Part No.
	CN601	KR CONNCTOR	S5B-PH-K-S
	CN602	KR CONNCTOR	S2B-PH-K-S
		PRINTED CIRCUT BOARD(LOAB)	VNP1912

6. ADJUSTMENT

6.1 ADJUSTMENT ITEMS AND LOCATION

■ Adjustment Items

[Mechanism Part]

❶ Tangential and Radial Height Coarse Adjustment

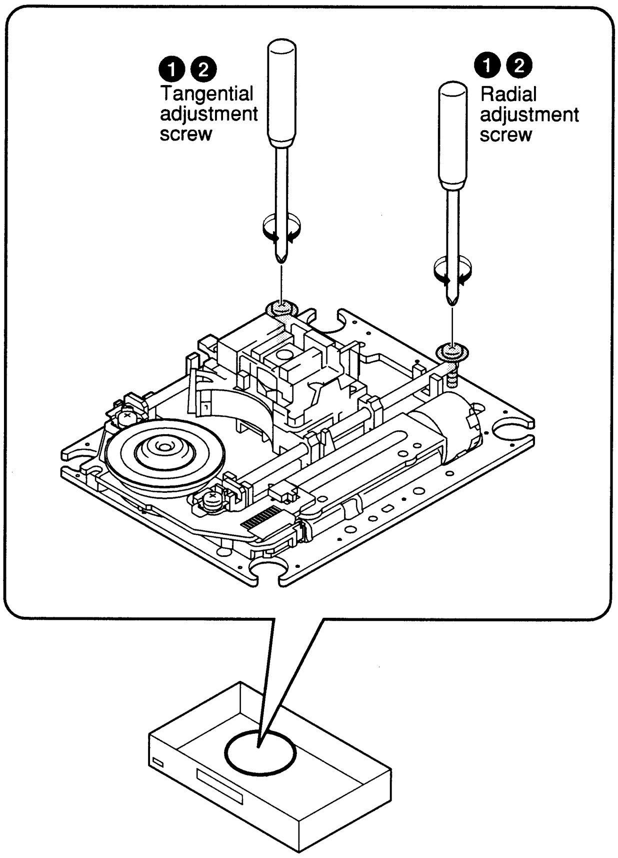
❷ DVD Jitter Adjustment

[Electrical Part]

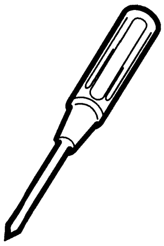
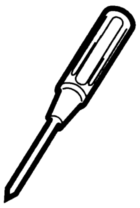
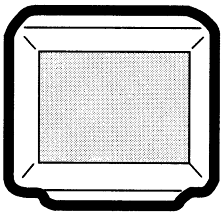
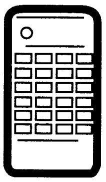
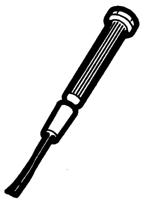
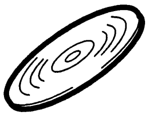
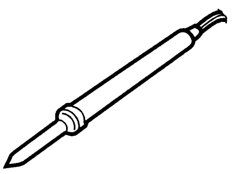
Electrical adjustments are not required.

■ Adjustment Points (Mechanism Part)

Cautions: After adjustment, adjustment screw locks with the Screw tight.



6.2 JIGS AND MEASURING INSTRUMENTS

 ⊕ Screwdriver (large)	 ⊕ Screwdriver (medium)	 TV monitor	 Test mode remote control unit (GGF1381)
 ⊕ Precise screwdriver	 DVD test disc (GGV1174)	 Soldering iron	Screw tight (GYL1001)

6.3 NECESSARY ADJUSTMENT POINTS

Exchange Parts of Mechanism Assy

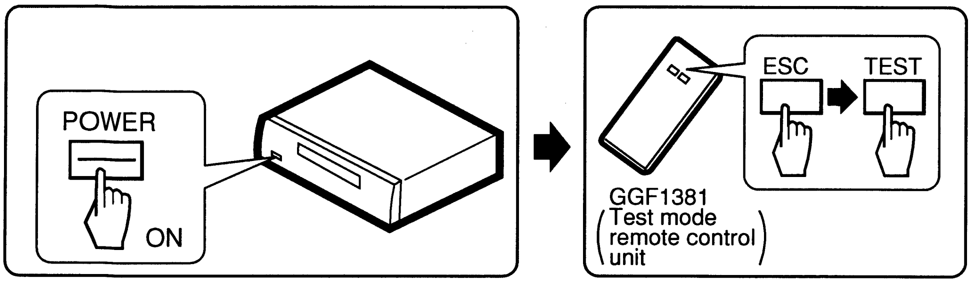
When		Adjustment Points	
Exchange the Pickup	**Mechanical point**	❶, ❷	* After adjustment, screw locks with the Screw tight.
	Electric point	—	
Exchange the Traverse Mechanism	**Mechanical point**	—	
	Electric point	—	
Exchange the Spindle Motor	**Mechanical point**	❷	* After adjustment, screw locks with the Screw tight.
	Electric point	—	

Exchange PCB Assy

When		Adjustment Points
Exchange PC Board LOAB and DVDM ASSYS	**Mechanical point**	—
	Electric point	—

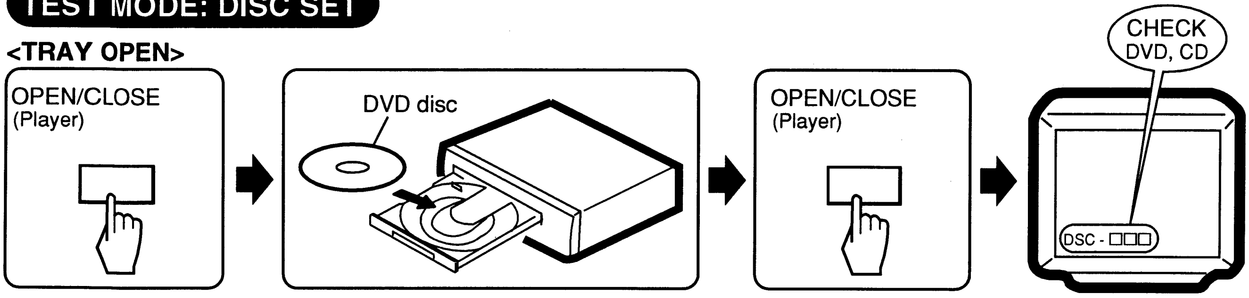
6.4 TEST MODE

TEST MODE: ON


POWER
ON
ESC
TEST
GGF1381
(Test mode remote control unit)

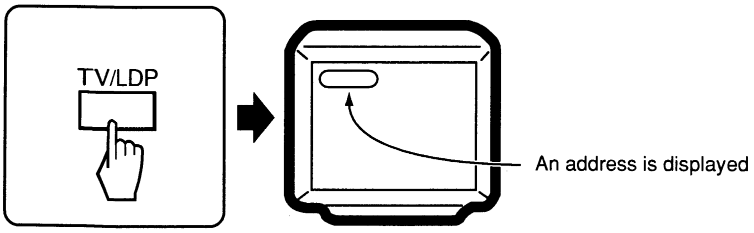
TEST MODE: DISC SET

<TRAY OPEN>


OPEN/CLOSE
(Player)
DVD disc
OPEN/CLOSE
(Player)
CHECK
DVD, CD
DSC - □□□

TEST MODE: PLAY

<PLAY>

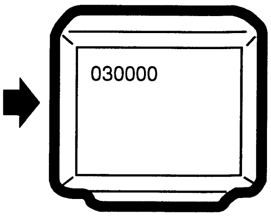

TV/LDP
An address is displayed

CAUTION:
Perform only trace, video and audio outputs are nothing.

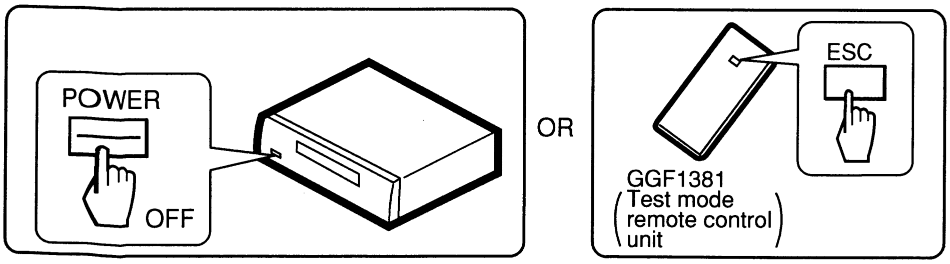
< When playback with the target address of disc (DVD)>

For example, when playback with # 30000

During PLAY +10 ➡ 3 ➡ 0 ➡ 0 ➡ 0 ➡ 0 ➡ CHP/TIM Press keys in order



TEST MODE: OFF

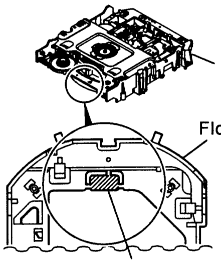

POWER
OFF
OR
ESC
GGF1381
(Test mode remote control unit)

6.5 MECHANISM ADJUSTMENT

❶ Tangential and Radial Height Coarse Adjustment

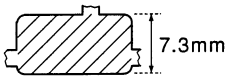
START

- Remove the Loading Mecha. Assy.
- Remove a Spacer for height adjustment attached to the back side (shaded area) of the Loading Mecha. Assy (Float Base) with nippers.

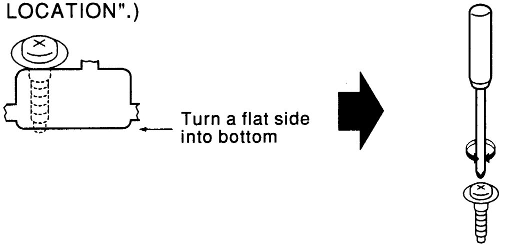

Loading Mecha. Assy
Float Base
Spacer for Height adjustment

Note:
Before removing the flexible cable for the pickup, soldering of the pickup circuit is necessary.
For details, see "7.1.10 DISASSEMBLY".

Cautions:
Keep spacer for future use.
(used only for 2003 models)



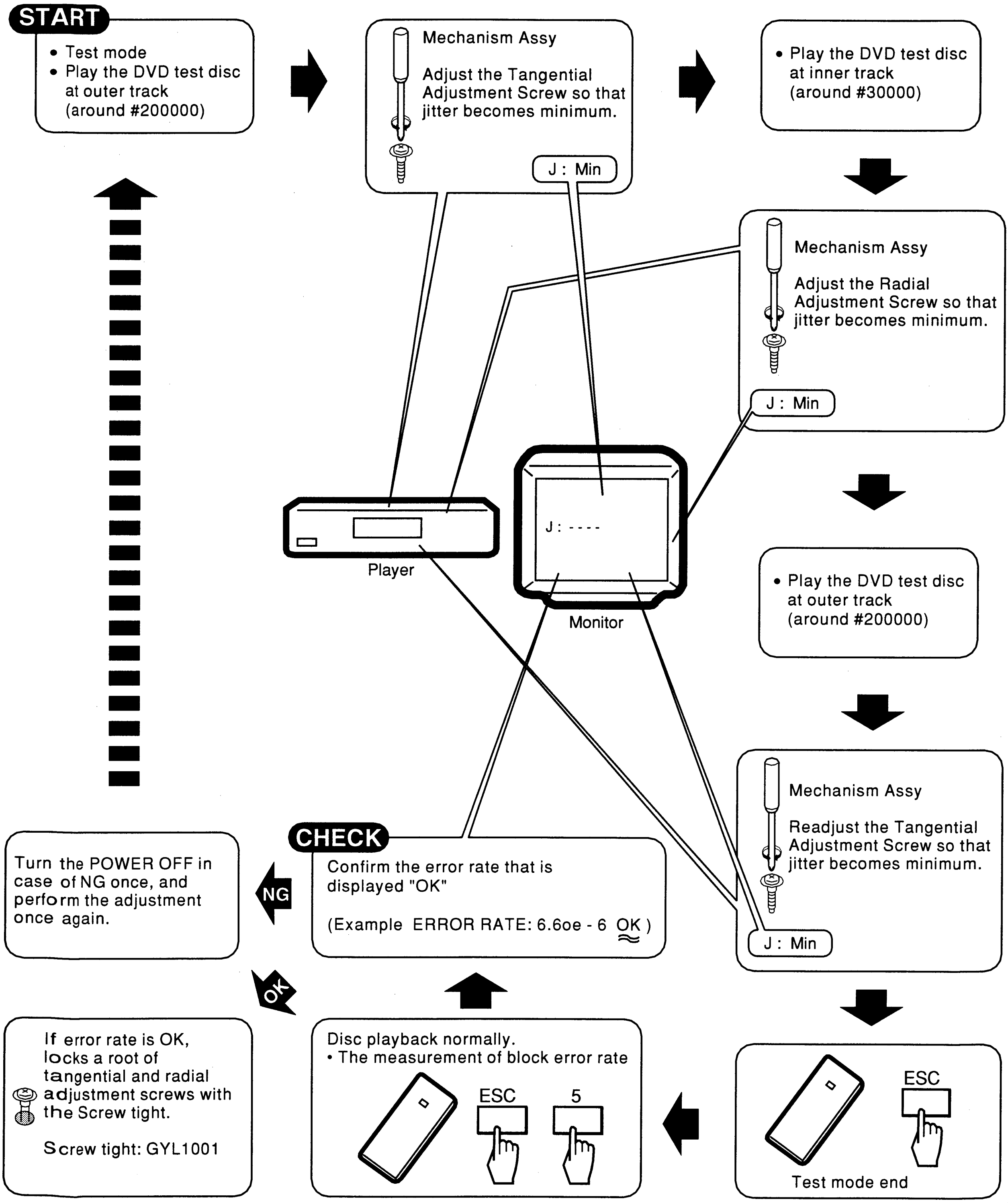
Put a spacer between a Tangential (or Radial) adjustment screw and Mechanism Base and turn each screw to adjust the height. (Refer to "6.1 ADJUSTMENT ITEMS AND LOCATION".)


Turn a flat side into bottom

② DVD Jitter Adjustment

- Playback method of inner and outer address for the purpose is refererd to "6.4 TEST MODE".
- Jitter indication of the monitor is refererd to "7.1.3 TEST MODE SCREEN DISPLAY".

Use disc: GGV1025



START
- Test mode
- Play the DVD test disc at outer track (around #200000)

Mechanism Assy
Adjust the Tangential Adjustment Screw so that jitter becomes minimum.
J : Min

- Play the DVD test disc at inner track (around #30000)

Mechanism Assy
Adjust the Radial Adjustment Screw so that jitter becomes minimum.
J : Min

- Play the DVD test disc at outer track (around #200000)

Mechanism Assy
Readjust the Tangential Adjustment Screw so that jitter becomes minimum.
J : Min

Test mode end

Disc playback normally.
- The measurement of block error rate

CHECK
Confirm the error rate that is displayed "OK"
(Example ERROR RATE: 6.6oe - 6 OK)

Turn the POWER OFF in case of NG once, and perform the adjustment once again.

If error rate is OK, locks a root of tangential and radial adjustment screws with the Screw tight.

Screw tight: GYL1001

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 ID NUMBER AND ID DATA SETTING

■ Entering the ID Number and ID Data for Players with DVD-Audio and DVD-RW Compatibility

It is necessary with a player with DVD-audio and DVD-RW compatibility to set an individual number (ID number) and ID data. If the number and data are not set correctly with the following procedure, operations in the future may not be guaranteed. You will find the ID number to be set on the yellow label on the rear panel.

Important: If no yellow label is found on the rear panel, write down the specified ID number by checking it according to "How to confirm the ID number" shown below.

■ The Input is Necessary When:

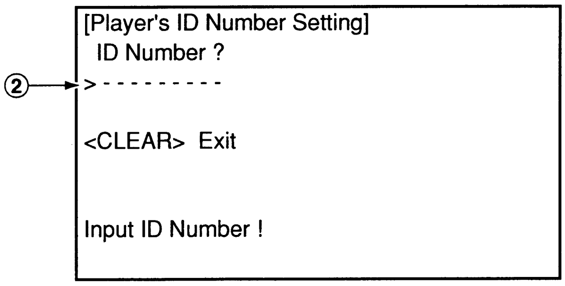
- Downloading FLASH-ROM is finished. (The latest version must be downloaded when a repair is made.)
- "No ID Number" is displayed on the screen or FL display immediately after the power is turned on or in Stop mode.
- If "No ID DATA" is displayed, the ID data must be entered.

Note:
Be sure to enter the ID number in Stop mode.
Use the service remote control (GGF1381) for operations. Only opening/closing of the tray are performed from the player.
Use Disc No. : GGV1174

■ How to Input the ID Number and ID Data

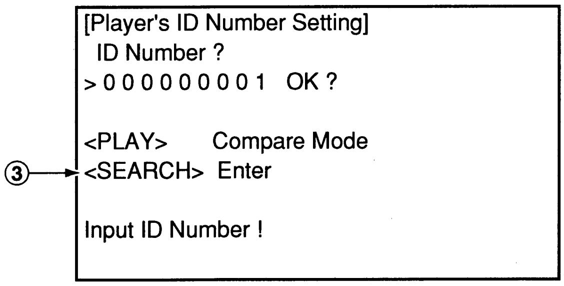
① To enter the input mode, press ESC + STEREO in a status with no ID number set, such as after FLASH-ROM downloading.

② As number input is enabled when the unit enters the input mode, input the 9-digit ID number.
(The entered number is also displayed on the FL display.)



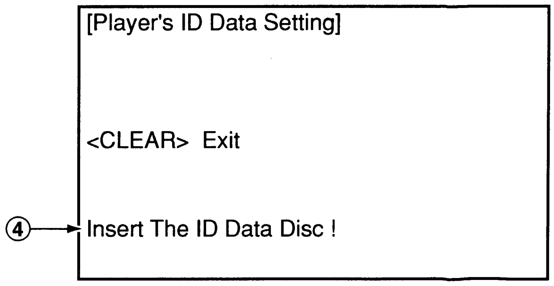
```
[Player's ID Number Setting]
  ID Number ?
>---------

<CLEAR>  Exit


Input ID Number !
```

③ After inputting the number, press SEARCH to register the ID number.



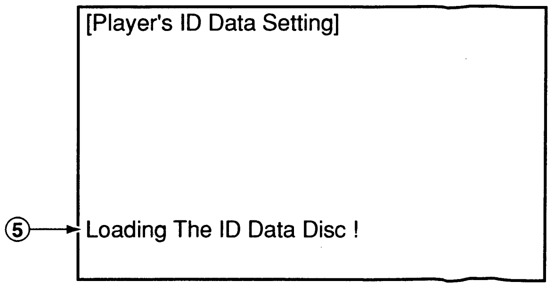
```
[Player's ID Number Setting]
  ID Number ?
>000000001  OK ?

<PLAY>      Compare Mode
<SEARCH>  Enter

Input ID Number !
```

④ When the ID number has been registered, the unit enters the ID data input mode. (The FL display indicates "NO ID DATA.") In this condition, place the ID data disc on the tray and close the tray using the CLOSE key "■/▲" on the player.



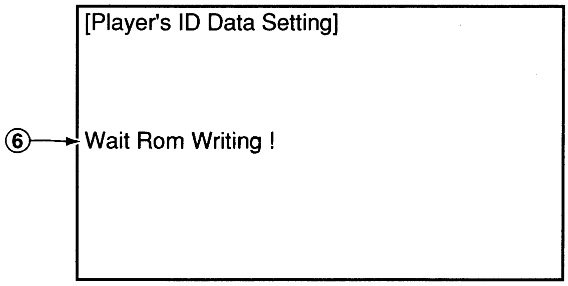
```
[Player's ID Data Setting]



<CLEAR>  Exit



Insert The ID Data Disc !
```

⑤ While the data are being read, the message shown in the figure at left is displayed on the screen.
(The FL display indicates "RD ID DATA.")



```
[Player's ID Data Setting]







Loading The ID Data Disc !
```

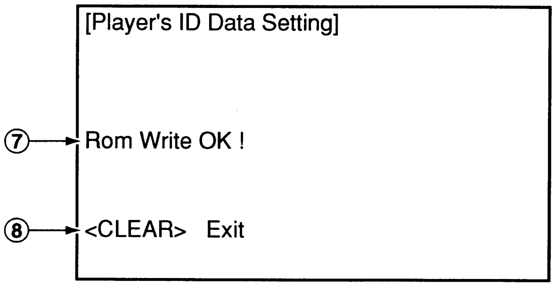
⑥ When the ID data have been read, the data are written to the FLASH-ROM.
(The FL display indicates "WR ID DATA.")



```
[Player's ID Data Setting]

Wait Rom Writing !
```

⑦ When the ID data have been written to the FLASH-ROM, the message "Rom Write OK" is displayed on the screen.
(The FL display indicates "ID DATA OK.")

⑧ After confirming this message, press CLEAR to exit the input mode.



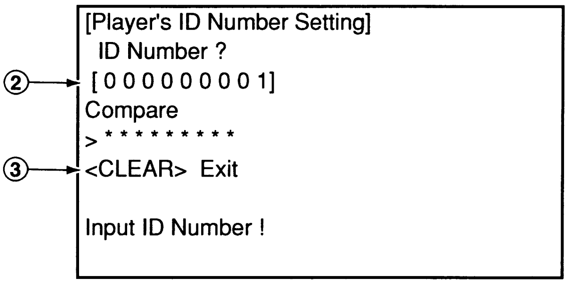
```
[Player's ID Data Setting]

Rom Write OK !

<CLEAR>  Exit
```

How to Confirm the ID Number

① Press ESC + STEREO with an ID number set, and the unit enters the ID number confirmation mode.

② The set ID number is displayed on the screen (and on the FL display), permitting you to confirm it.

③ To exit this mode, press CLEAR.

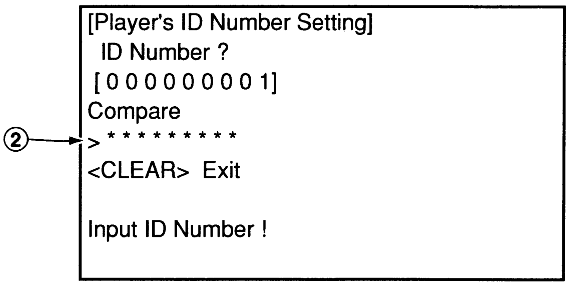


```
[Player's ID Number Setting]
  ID Number ?
 [0 0 0 0 0 0 0 0 1]
Compare
> * * * * * * * * *
<CLEAR>  Exit

Input ID Number !
```

How to Clear the ID Number

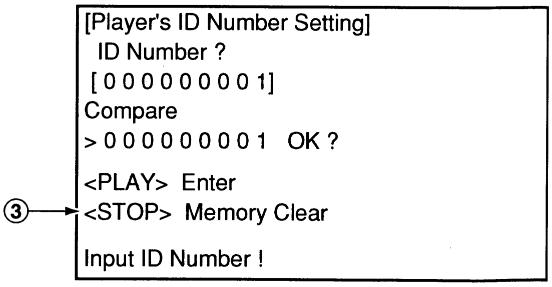
① Press ESC + STEREO with an ID number set, and the unit enters the ID number confirmation mode.

② Input the same number as the ID number you have set.



```
[Player's ID Number Setting]
  ID Number ?
 [0 0 0 0 0 0 0 0 1]
Compare
> * * * * * * * * *
<CLEAR>  Exit

Input ID Number !
```

③ After inputting the number, press STOP.
Only when the entered number matches the set ID number, the ID number is cleared and the unit exits this mode.
If the numbers do not match, you must return to step 2.
(STOP is not accepted until 9 digits are entered.)



```
[Player's ID Number Setting]
  ID Number ?
 [0 0 0 0 0 0 0 0 1]
Compare
> 0 0 0 0 0 0 0 0 1   OK ?
<PLAY>  Enter
<STOP>  Memory Clear
Input ID Number !
```

7.1.2 SELF-DIAGNOSIS FUNCTION OF PICKUP DEFECTIVE

This unit can confirm the laser diode current value (DVD: 650nm, CD: 780nm) of pickup on the Test Mode screen. (Press the ESC → TEST keys in order on the test mode remote control unit (GGF1381) to enter the test mode.)

It's effective in case of the following condition.

Symptom

- Indicates "No Disc" in FL display.
- Player does not playback, etc..

Procedure of Self-Diagnosis

① Enter the Test mode.

② When diagnosing the 650nm laser diode:
Press the TEST → 1 keys in order, and turn on the laser diode (It light-up for nine seconds.).
When diagnosing the 780nm laser diode:
Press the TEST → 4 keys in order, and turn on the laser diode (It light-up for nine seconds.).

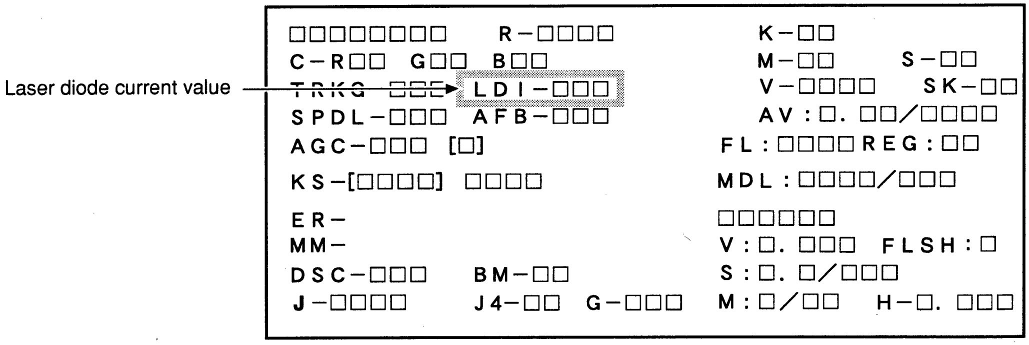
When let it turn on once again after performed ② once,
After pressed REP.B key once
650nm: Press the TEST → 1 keys in order
780nm: Press the TEST → 4 keys in order

③ Confirm the indicated value of the laser diode current (LDI). (Refer to following figure.)

④ **When indicated value is more than 140, pickup is defective. → Replacement is necessary**
Replace the Traverse Mechanism Assy or Pickup.

Note : When a DVD disc or a CD disc is played in the test mode, this function is effective.

Character in bold : Item name
□ : Information display

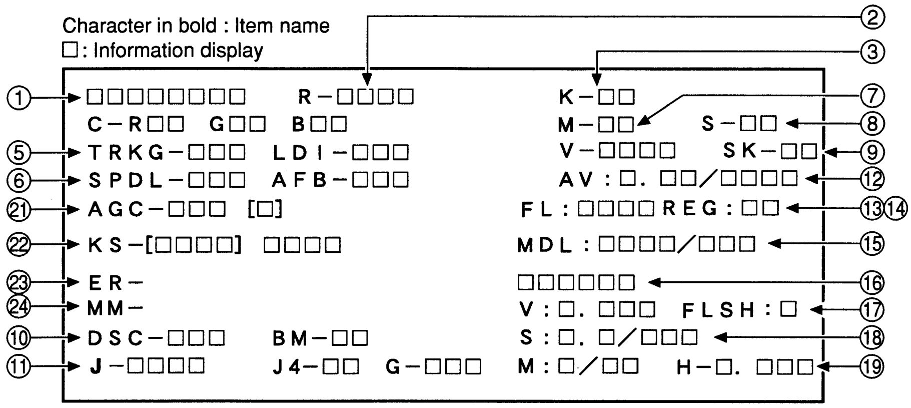


Laser diode current value

```
□□□□□□□□□     R－□□□□              K－□□
C－R□□  G□□  B□□                   M－□□       S－□□
TRKG  □□□  LDI－□□□                V－□□□□     SK－□□
SPDL－□□□  AFB－□□□                AV :□. □□/□□□□
AGC－□□□  [□]                     FL :□□□□REG :□□
KS－[□□□□]  □□□□                  MDL :□□□□/□□□
ER－                               □□□□□□
MM－                               V :□. □□□   FLSH :□
DSC－□□□      BM－□□               S :□. □/□□□
J－□□□□       J4－□□   G－□□□      M :□/□□     H－□. □□□
```

7.1.3 TEST MODE SCREEN DISPLAY

■ Display Specification of the Test Mode



① **Address indication**
The address being traced is displayed in number.
(as for the DVD, indication of decimal number is possible.)
DVD : ID indication (hexadecimal number, 8 digits)
[* * * * * * * *]
CD : A-TIME (min. sec.) [0 0 0 0 * * * *]

② **Code indication of remote control unit [R – * * * *]**
In case of double code, display a 2nd code.

③ **Main unit keycode indication [K – * *]**

④ **Background color indication [C – R* * G* * B* *]**

⑤ **(1) Tracking status [TRKG – * * *]**
Tracking on : [ON]
Tracking off : [OFF]
(2) Laser diode current value [LDI – * * *]

⑥ **(1) Spindle status [SPDL – * * *]**

Spindle accelerator and brake, free-runnimg	[A/B]
FG servo	[FG]
Rough, velocity phase servo	[SRV]
Offset addition, rough, velocity phase servo	[O_S]

(2) AFB status [AFB – * *]

ON	[ON]
OFF	[OFF]

⑦ **Mechanism (loading) position value [M – * *]**
Unknown : [01] or [41]
Open state : [04]
Close state : [08]
During opening : [12]
During closing : [22]

⑧ **Slider position [S – * * * *]**
CD TOC area : [IN]
CD active area : [CD]

⑨ **Output video system [V – * * * *]**
NTSC system : [NTSC]
PAL system : [PAL]
Automatic setting : [AUTO]
Scart terminal output [SK – * *]
(Display only the WY model which can do the output setting of scart terminal.)
VIDEO : [00]
S-VIDEO : [01]
RGB : [02]

⑩ **(1) Disc sensing [DSC – * * *]**
The type of discs loaded is displayed.
[DVD], [CD], [VCD], [ ]
(2) CD 1/3 beam switch [BM – * *]

⑪ **Jitter value [J – * * * *]**
Make the jitter four times, and renew it in every 0.5 second.
[J4 – * *]

⑫ **Version of the AV-1 chip / version of firmware [AV: * * / * * * * * * * *]**

⑬ **Version of the FL controller [FL: * * * *]**

⑭ **Region setting of the player [REG: *]**
Setting value : [1] to [6]

⑮ **Destination setting of the FL controller [MDL: * * * * / * * *]**
Four characters in the front represent the type of model.
Three characters in the back represent the destination code.
J: /J, K: /KU, /KC, /KU/KC, R: /RAM/RL/RD, LB: /LB, WY: /WY

⑯ **Part number of the flash ROM and system controller [* * * * * * / * * * * * *]**

⑰ **Version of the flash ROM [V: *. * * *]**
Flash ROM size [FLSH = *]

⑱ **Revision of the system controller [S: * . * / * * *]**

⑲ (1) Revision of the DVD mechanism controller
[M: * / * *]
(2) Part number of the GUI-ROM (OEM model)
[GUI: * * *]
(3) HOST conversion [HOST: * * *]

㉑ AGC setting [AGC – * * * [*]]
AGC on : [AGC-ON]
AGC off : [AGC-OFF]
[1] : RFAGC on [0] : RFAGC off

㉒ FTS servo IC information
DSP coefficient indication [KS – [* * * *] * * * *]
Displays the address (four digits) of the specified coefficient and the setting value (four digits) with [TEST] and [9] keys.

㉓ Error rate indication
① C1 error value of CD [ER – C1 * * * *]
② C1 error value of DVD [ER – * * * * * * * *]

㉔ Internal operation mode of mechanism controller
[MM – * * : * *]
Internal mechanism mode (2 digits) and internal mechanism step (2 digits) of the mechanism controller

7.1.4 SELF-DIAGNOSIS FUNCTION

When enter the service mode, self diagnosis mode operates with the "ESC"+"CHP/TIM" keys automatically.

① Mechanism Error History (past eight times of error is displayed)

Two columns of the beginning display the error status for mechanism controller.
(the details of error contents refer to "7.1.6 Error Display".)
Eight columns of the back display the count UP value (turned count up every 20msec) from the power-up.
Example) 32h ≒ 1 sec, BB8h ≒ 1 min, 2BF20h ≒ 1 hour
In addition, when there was error after power-up immediately (till initial setting is completed), turn the most significant bit to ON.

② Check Item Display of Self Diagnosis Function

a) AV1 Host Bus check (possible the check only during stop) (Read & Write process of an internal specific register)
AV_1 : OK
: — ⇒ not yet check
: HOST BUS NG ⇒ HOST bus NG

b) Bus check between AV1 SDRAM (possible the check only during stop) (Read & Write process to the SDRAM)
AV_2 : OK
: — ⇒ not yet check
: AV1-SDRAM BUS NG ⇒ Bus NG between AV1 and SDRAM

c) DMA transfer port check from F.E. to AV1 (during stop, possible the check only in DVD or NO DISC)
(writing from F.E to SDRAM and reading of SDRAM)
AV_3 : OK
: — ⇒ not yet check
: FE-AV1 DMA NG ⇒ Bus NG between F.E and SDRAM installed outside of AV1

d) Video encoder (ADV****) check (Read of the specific register)
VE : OK
: NG ADV, ⇒ ADV register reading NG
: NG > ADV, ⇒ ADV communication NG of FR to video encoder
: NG > PRO ⇒ Communication NG from EBY to progressive decoder

e) DSP check (Read of the specific register)
DSP : OK
: NG ⇒ DASP NG

f) SACD check (Read of the specific register)
SACD : OK
: NG ⇒ SACD NG

g) 1394 relation HOST controller check
HOST : OK
: NG ⇒ HOST controller NG

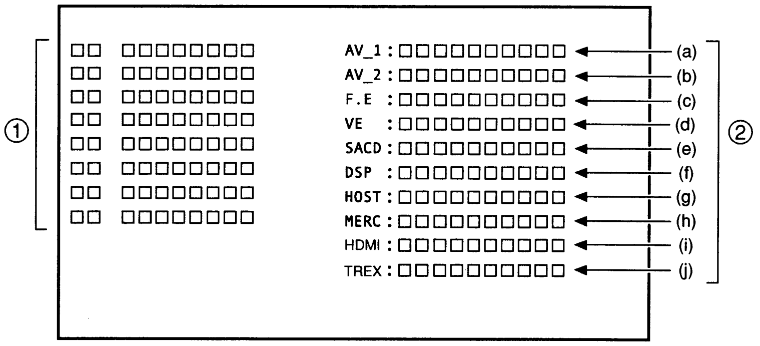
h) 1394 relation Mercury CHIP check
MERC : OK
: NG ⇒ Mercury CHIP NG

i) HDMI Transmitter IC check
HDMI : OK
: NG

j) HDMI Resolution Conversion IC(T-rex) check
TREX : OK
: NG

Display the mechanism error history and self diagnosis result by pressing the "CHP / TIM" key once again.
Afterwards press the "CHP / TIM" key with toggle and change the display.

Display screen of mechanism error history and self diagnosis result



7.1.5 FUNCTIONAL SPECIFICATION OF THE SERVICE MODE

• FL indication of EDC / ID error (short cut function)

Indicate it in FL with the "ESC"+"CX" keys (LD remote control unit).
Indication is released with the "ESC" key during display.

FL indication contents

```
00 /00 / 01 *
```

Indicate number of the location that caused EDC and ID errors

Retry number of times at having caused ID error (error is indicated only in the occurring moment)
Retry number of times of the latest ID error in the ST system

Retry number of times at having caused EDC error (error is indicated only in the occurring moment)
Retry number of times of the latest EDC error in the ST system

∗ Mark: When even once causes AV1 error, lights.

• Screen display of the service mode

Indicate to the screen with the "ESC"+"CHP/TIM" keys.
Release the indication with the "ESC" key.
Indication contents

① ID Address

② DVD in playback: Error rate regular indication and exponent indication
CD/VCD in playback indicates the number of correct frame of C1 error /5 seconds.

③ Self diagnosis indication
Indicate the self diagnosis result whether the F.E is normal.

Self Check	: During FE checks
Self Check OK	: Abnormality is not found in F.E.
Self Check Error	: Abnormality is found in F.E.

Indicate the mechanism error history and self diagnosis result by pressing the "CHP / TIM" key once again.
Afterwards press the "CHP / TIM" key with toggle and change the display.
Indication of the mechanism error history and self diagnosis result refer to "7.1.4 self diagnosis function".

④ Error information indication of the AV decoder

(a)
When a retry occurred in reading from the disc, a history indicates the occurrence location and the occurrence reason.
History is indicated to past seven times.
Eight columns of the beginning show the physical address which occurred of retry.
As for four columns of next, bitmap indicates EDC status. LSB shows the first sector during a block and MSB shows a last sector.
Following field indicates the retry number of times.
One digit in front of " / " shows number of times of the retry by EDC Error which occurred in the same block in succession.
One digit after " / " shows number of times of the retry by ID Check Error which occurred in the same block in succession.
" * " of last one digit shows the EDC Check NG Count Over.
" # " shows the ID Check NG Count Over.
When " * " and " # " are not indicated, show that data were rightly readable by retry process.

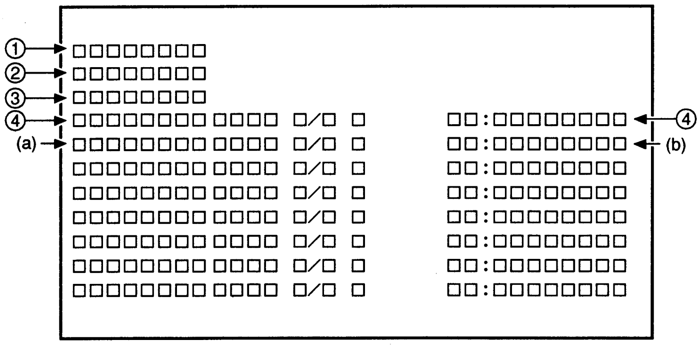
(b)
Indicate the error information that detected with the Audio/Video Decoder. When error occurred, a history indicates the occurrence time and the occurrence reason. History is indicated to past seven times.
Field in front of ":" indicates the error information of Audio/Video Decoder.
(Indication information is different from Fujitsu Decoder with Mitsubishi Decoder)
02 model is 656 series and 757 series is Mitsubishi model.

• Specification for the Audio/Video Decoder (M65773FP) model of Mitsubishi
bit7: VLD Fatal Error detection
bit6: VLD Not Fatal Error detection
bit5: Number of Macro Block mismatch
bit4: Decode error
bit3: VLD Sequence Layer Fatal Error detection
bit2: VLD Picture Layer Fatal Error detection
bit1: VLD Slice Layer Fatal Error detection
bit0: Start-up Sequence Time-out Error detection

Following field in " : " indicates a value of STC (System Time Clock) which detected the above Audio/Video Decoder error.

∗ When often perform the switch of debug screen, an error history will be increased.
As for this, CPU power is used for update of OSD drawing, symptoms occur so that control of VBR Buffer is not in time.

Indication contents



7.1.6 ERROR DISPLAY

Error codes that are displayed on the FL display without using the remote control unit

FL Display	Possible causes	Operation of the unit
AV1 VER	AV-1 chip is not a match with the program of system controller	The sound may not out with the specific audio.
CPU AERR	CPU address error (Hardware is unusual.)	No operation
DMA AERR	DMA address error (Hardware is unusual.)	No operation
FLASH ID	Difference in versions of the internal ROM of the system controller and of the flash ROM, or bus line failure or reverse installation	No operation
FLASH WRP	Write protect error of the flash ROM	No operation
FLASH SIG	Difference in part number of the flash ROM (When the ROM which could't be used was used.)	No operation
FLASH SUM	Check sum error of the flash ROM (It exceeds the regular size.) or reverse installation (Hardware is unusual.)	No operation
FLASH SIZ	Size error of the flash ROM (Use 4 or 8 M-bit.)	No operation
GUI ROM ERROR	Difference in version of GUI ROM and system controller software.	Operate as the OSD model
ILLGAL	The system controller fetched a code other than an operation code (Hardware is unusual.)	No operation
MECHA CPU	Difference in version of the internal ROM of the mechanism controller and of the flash ROM.	No operation
RESERVE	Undefined interrupt (Hardware is unusual.)	No operation
SLOT	Inappropriate slot command issued (Hardware is unusual.)	No operation

Error codes that are displayed on the FL display by using the remote control unit (Mechanism controller error)

To display: ESC + DISPLAY + DISPLAY; Location of the display: At the two digits of center of the FL display
To display the error history: ESC + DISPLAY + One shot; Location of the display: TV screen

FL	Description of Error	Causes if with a DVD	Causes if with a CD	Operation of the Unit
11	Search timeout	Search could not be complete within 7 seconds.	Search could not be complete within 7 seconds, and it could not enter the target area within 7 seconds by VCD scan.	CD : Stops, DVD: Continues operation
12	Search retry error	More beyond the target while the read-in search was converging. A search could not be completed after 3 retries while the unit was tracing 11 tracks. A search could not be completed after retry when timeout occurs at read-in.		CD: Stops, DVD: Continues operation
19	Tracing timeout while converging	Timeout (10.5 seconds) while tracing at the stage of convergence of a search.		Stop
1B	Index 0 search error		During Track (Index) Search, the search for the beginning of a program could not be completed within 3 seconds (20 seconds in the case of Index Search) after positioning based on the TOC data was completed.	Stop
1C	Embossment plunge error (only a model corresponding to RW)	Plunged into unreadable embossment of DVD-RW player.		1. In wobble nothing (error distinction) : search to address 2E400h 2. In wobble existence: Tray open
22	Timeout of slider inner circumference	Inside switch could not ON within 3 seconds.		Stop
23	Timeout of slider outer circumference	Inside switch could not OFF within the following times: at ATB: 2 seconds, at Backup: 2 or 2.02 seconds.		Stop
33	No FOK pulse during playback	When the focus was deviated continuously 20 times.		Adjusts focus at the innermost circumference and tries to return to its position where the error was generated (for 3 times),then opens. If the same error persists after one retry, the tray opens. (No FOK pulse)
38	Disc-type-sensing error	Were not able to playback from the disc distinction process. PLAY or STOP was not completed by backup operation of the disc distinction. Distinguished it from the blank disc in the ATB process completion.		Open

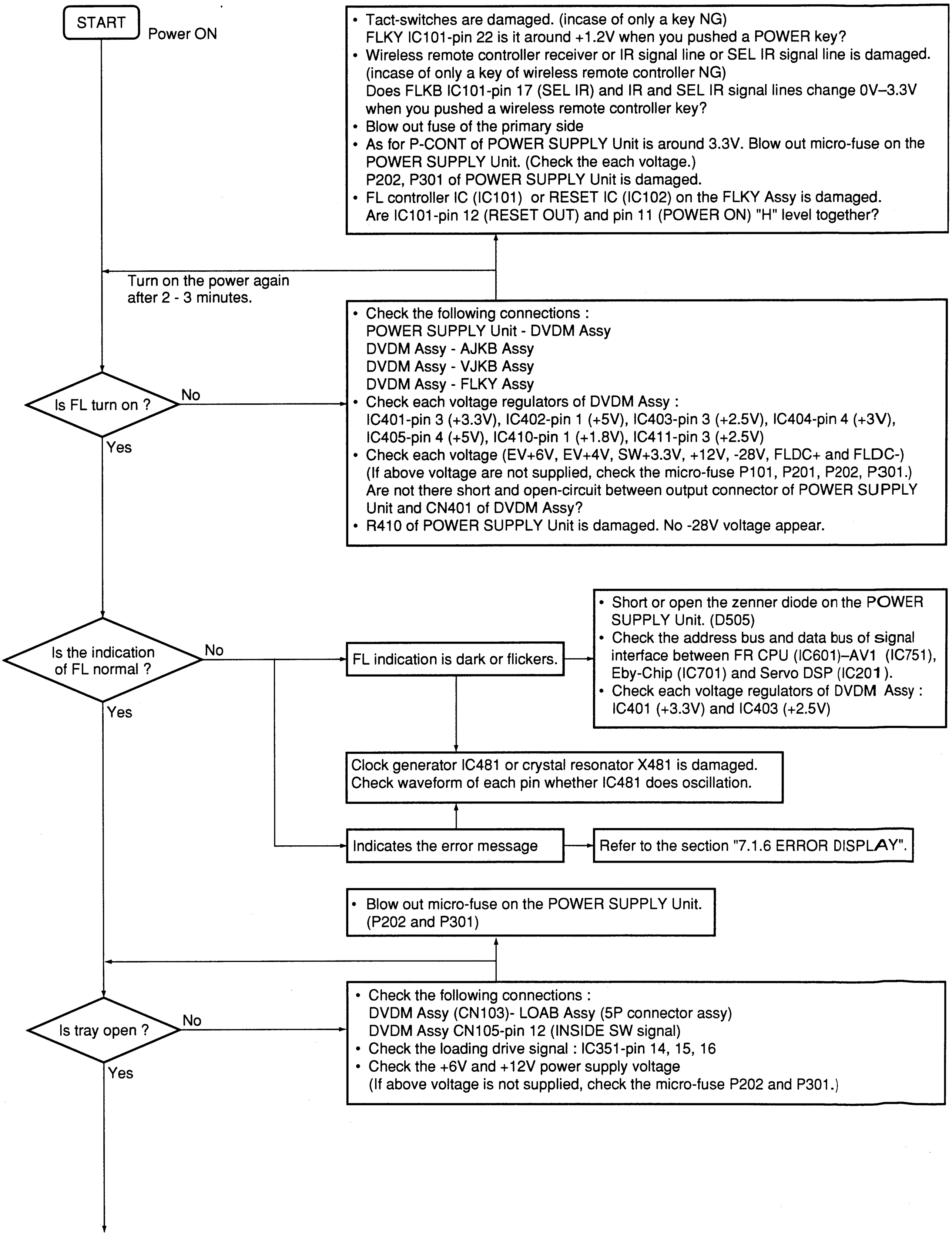
FL	Description of Error	Causes if with a DVD	Causes if with a CD	Operation of the Unit
39	SGC converge timeout	SGC could not converge during detects the peak		Open
41	Spindle timeout	The unit did not enter Stop mode within 10 seconds of issuance of a Stop command. Disc distinction is not completed even if passes for 10 seconds after the spindle turned.		Stop
48	Spindle FG transition timeout	Did not reach to the rotating speed that ATB was possible for less than 10 seconds. Did not reach aim CAV lock speed (high: 10%, low: 50%) for less than 10 seconds. CAV process passed more than 5 seconds or abnormal speed was detected. Spindle does not lock for less than 3 seconds in the BCA read start or end.		Stops. (FG timeout)
49	Spindle PLL transition timeout	CAV process passed more than 5 seconds. Abnormal speed was detected.		Stops. ("73" is displayed during starting process.)
4A	Spindle lock timeout	Spindle could not lock more than 1.5 seconds before start the AFB.		Stops. ("73" is displayed during starting process.)
51	Auto sequence timeout of peak detection	ABUSY did not return within 1 second after the DDTCT (peak detection) command was sent.		Stop
52	Auto sequence timeout of focus jump down	ABUSY did not return within 30 mS after the FJMPD (Focus jump 1 to 0) command was sent.		Open
53	Auto sequence timeout of focus jump up	ABUSY did not return within 30 mS after the FJMPU (Focus jump 0 to 1) command was sent.		Open
54	Auto sequence timeout of play AGC	ABUSY did not return within 50 mS after the GSUMON (play-AGC-measuring) command was sent.		Stop
55	Auto sequence timeout of disc-type-sensing	ABUSY did not return within 2 seconds after the DJSRT (disc-sensing) command was sent.		Stop
56	Auto sequence timeout of ATB2	ABUSY did not return within 1 second after the TBLOFS (Internal ATB after the completion of external ATB) command was sent.		Stop
57	Auto sequence timeout of tracking servo ON	ABUSY did not return within 0.5 sec. after the TSON (tracking servo ON) command was sent.		Stop
58	Auto sequence timeout of ATB1	ABUSY did not return within 0.2 sec. after the TBL (external ATB) command was sent.		Stop
59	Auto sequence timeout of focus gain adjustment	ABUSY did not return within 2 seconds after the FGN (focus gain adjustment) command was sent.		Stop
5A	Auto sequence timeout of tracking gain adjustment	ABUSY did not return within 2 seconds after TGN (tracking gain adjustment) command was sent.		Stop
5B	Auto sequence timeout of offset adjustment	ABUSY did not return within 1 second after the AVE (offset adjustment) command was sent.		Stop
5C	Auto sequence timeout of modulation factor measurement	ABUSY did not return within 200 mS after the ADJMIR (modulation factor measurement) command was sent.		Stop
5D	Auto sequence timeout of auto focus bias	ABUSY did not return within 2 seconds after the AFB (auto focus bias) command was sent.		Stop
5F	Auto sequence already busy	A command could not be sent because ABUSY was low. ABUSY did not return within 200 mS after TLV command was sent.		Stop
62	Pause retry error	Pause mode could not be restored within three retries after it had been released.		Continues operation
71	ID reading check during playback	An ID could not be read for 1 second or more.		Stop
72	Subcode check failure during playback		No frame could be read for 3 seconds or more.	Stop
73	ID can not read during startup	An ID could not be read within 1 second after the AFB tracking on.		Opens (ID readout failure)

FL	Description of Error	Causes if with a DVD	Causes if with a CD	Operation of the Unit
74	Subcode check failure during startup		Subcode could not be read within 1 second after the tracking on.	Opens (Subcode readout failure).
A1	Communication timeout of DSP command	A command could not be issued to DSP because Command Busy (XCBUSY) was in force (XCBUSY = L) for a specified time (about 200 µS).		Open
A2	Communication timeout for reading DSP coefficient	Command Busy (XCBUSY) was in force for a specified time (about 200 µS) before and after a coefficient read command was issued to DSP, or the address echo-back after command issuance did not match the setup address.		Open
A4	Communication timeout for continuously writing DSP coefficient	Command Busy (XCBUSY) was in force for 200 µS during continuous coefficient writing, or before and after a continuous write command was issued to DSP.		Open
B1	Timeout error for backup	In the backup sequence, codes could not be read for fixed time.		Stops
B2	Retry error for backup	Cannot close tracking even if performs backup fixed number of times.		Stops
B3	Retry error for trace	During tracing, do not restore after the runaway detection backup was performed several times.		Stops
C3	Detection of tracking overcurrent	During playback, the overcurrent detection port was at L for 300 ms or more continuously.		Stops (the mechanical controller operates independently).
(C5)	Short-circuit test corresponding error	After the overcurrent detection (C3 error), furthermore the overcurrent detection port was at L for 300 mS or more continuously.		Turns off the power instantly (No indication on the FL display and no writing to flash memory)
F5	Tray being pushed	The tray switch that had been Open mode was forcibly changed to a mode other than Open by an external force.		Closes
F6	Code reading NG		(PH code nothing) When Philips code is not readable during LD starting, and a code was not readable after the slider moved to FWD and REV directions slowly each for five seconds. (PRD) In the CD starting, when a subcode of TOC part was not readable, but the subcode of the program area was readable.	Search, scan and special playback prohibition, Playback as playback CD-R (PRD mode) as it is.
F8	Loading timeout	Loading or unloading could not be completed within a specified time (about 10 seconds). Though a portable cover is opening, when a close command was issued from the system controller.		Reverses the loading direction. It timeout is repeated upon retry, the unit stops.
FC	Focus	• Focus ON sequence could not be completed more than two seconds. • Auto sequence command was finished, actually focus ON was not completed. • Focus did not enter even if retried it eight times.		Stops wherever possible then opens (stops in the case of side B).

Error codes that are displayed on the FL display by using the remote control unit (Device error)
To display: ESC + DISPLAY + DISPLAY; Location of the display: At the two digits of left of the FL display

FL	Description of Error	Causes if with a DVD	Causes if with a CD	Operation of the Unit
bit4=1 10 etc.	Mechanism controller RAM check sum error			No operation or it becomes debugging indication if the power is able to ON.
bit3=1 08 etc.	AV1 access error (read, write NG)			
bit2=1 04 etc.	LSI11 access error			
bit0=1 01 etc.	SRAM access error			

7.1.7 TROUBLE SHOOTING



- Tact-switches are damaged. (incase of only a key NG)
  FLKY IC101-pin 22 is it around +1.2V when you pushed a POWER key?
- Wireless remote controller receiver or IR signal line or SEL IR signal line is damaged. (incase of only a key of wireless remote controller NG)
  Does FLKB IC101-pin 17 (SEL IR) and IR and SEL IR signal lines change 0V–3.3V when you pushed a wireless remote controller key?
- Blow out fuse of the primary side
- As for P-CONT of POWER SUPPLY Unit is around 3.3V. Blow out micro-fuse on the POWER SUPPLY Unit. (Check the each voltage.)
  P202, P301 of POWER SUPPLY Unit is damaged.
- FL controller IC (IC101) or RESET IC (IC102) on the FLKY Assy is damaged.
  Are IC101-pin 12 (RESET OUT) and pin 11 (POWER ON) "H" level together?

Turn on the power again after 2 - 3 minutes.

- Check the following connections :
  POWER SUPPLY Unit - DVDM Assy
  DVDM Assy - AJKB Assy
  DVDM Assy - VJKB Assy
  DVDM Assy - FLKY Assy
- Check each voltage regulators of DVDM Assy :
  IC401-pin 3 (+3.3V), IC402-pin 1 (+5V), IC403-pin 3 (+2.5V), IC404-pin 4 (+3V), IC405-pin 4 (+5V), IC410-pin 1 (+1.8V), IC411-pin 3 (+2.5V)
- Check each voltage (EV+6V, EV+4V, SW+3.3V, +12V, -28V, FLDC+ and FLDC-)
  (If above voltage are not supplied, check the micro-fuse P101, P201, P202, P301.)
  Are not there short and open-circuit between output connector of POWER SUPPLY Unit and CN401 of DVDM Assy?
- R410 of POWER SUPPLY Unit is damaged. No -28V voltage appear.

FL indication is dark or flickers.

- Short or open the zenner diode on the POWER SUPPLY Unit. (D505)
- Check the address bus and data bus of signal interface between FR CPU (IC601)–AV1 (IC751), Eby-Chip (IC701) and Servo DSP (IC201).
- Check each voltage regulators of DVDM Assy :
  IC401 (+3.3V) and IC403 (+2.5V)

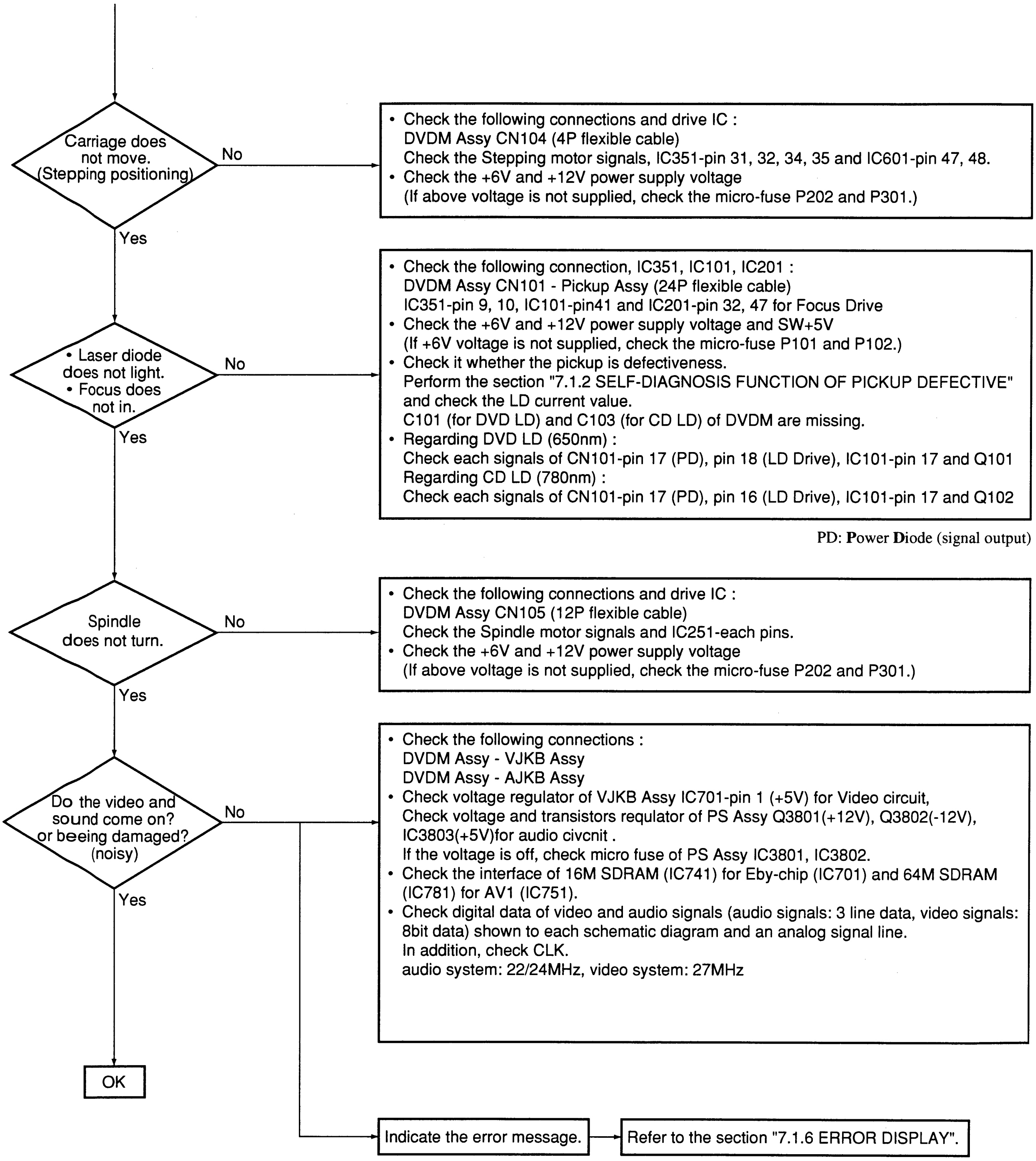
Clock generator IC481 or crystal resonator X481 is damaged.
Check waveform of each pin whether IC481 does oscillation.

Indicates the error message

Refer to the section "7.1.6 ERROR DISPLAY".

- Blow out micro-fuse on the POWER SUPPLY Unit.
  (P202 and P301)

- Check the following connections :
  DVDM Assy (CN103)- LOAB Assy (5P connector assy)
  DVDM Assy CN105-pin 12 (INSIDE SW signal)
- Check the loading drive signal : IC351-pin 14, 15, 16
- Check the +6V and +12V power supply voltage
  (If above voltage is not supplied, check the micro-fuse P202 and P301.)


Carriage does not move. (Stepping positioning)
No
Yes
• Laser diode does not light.
• Focus does not in.
No
Yes
Spindle does not turn.
No
Yes
Do the video and sound come on? or beeing damaged? (noisy)
No
Yes
OK

- Check the following connections and drive IC :
  DVDM Assy CN104 (4P flexible cable)
  Check the Stepping motor signals, IC351-pin 31, 32, 34, 35 and IC601-pin 47, 48.
- Check the +6V and +12V power supply voltage
  (If above voltage is not supplied, check the micro-fuse P202 and P301.)

- Check the following connection, IC351, IC101, IC201 :
  DVDM Assy CN101 - Pickup Assy (24P flexible cable)
  IC351-pin 9, 10, IC101-pin41 and IC201-pin 32, 47 for Focus Drive
- Check the +6V and +12V power supply voltage and SW+5V
  (If +6V voltage is not supplied, check the micro-fuse P101 and P102.)
- Check it whether the pickup is defectiveness.
  Perform the section "7.1.2 SELF-DIAGNOSIS FUNCTION OF PICKUP DEFECTIVE" and check the LD current value.
  C101 (for DVD LD) and C103 (for CD LD) of DVDM are missing.
- Regarding DVD LD (650nm) :
  Check each signals of CN101-pin 17 (PD), pin 18 (LD Drive), IC101-pin 17 and Q101
  Regarding CD LD (780nm) :
  Check each signals of CN101-pin 17 (PD), pin 16 (LD Drive), IC101-pin 17 and Q102

PD: **P**ower **D**iode (signal output)

- Check the following connections and drive IC :
  DVDM Assy CN105 (12P flexible cable)
  Check the Spindle motor signals and IC251-each pins.
- Check the +6V and +12V power supply voltage
  (If above voltage is not supplied, check the micro-fuse P202 and P301.)

- Check the following connections :
  DVDM Assy - VJKB Assy
  DVDM Assy - AJKB Assy
- Check voltage regulator of VJKB Assy IC701-pin 1 (+5V) for Video circuit,
  Check voltage and transistors requlator of PS Assy Q3801(+12V), Q3802(-12V), IC3803(+5V)for audio civcnit.
  If the voltage is off, check micro fuse of PS Assy IC3801, IC3802.
- Check the interface of 16M SDRAM (IC741) for Eby-chip (IC701) and 64M SDRAM (IC781) for AV1 (IC751).
- Check digital data of video and audio signals (audio signals: 3 line data, video signals: 8bit data) shown to each schematic diagram and an analog signal line.
  In addition, check CLK.
  audio system: 22/24MHz, video system: 27MHz

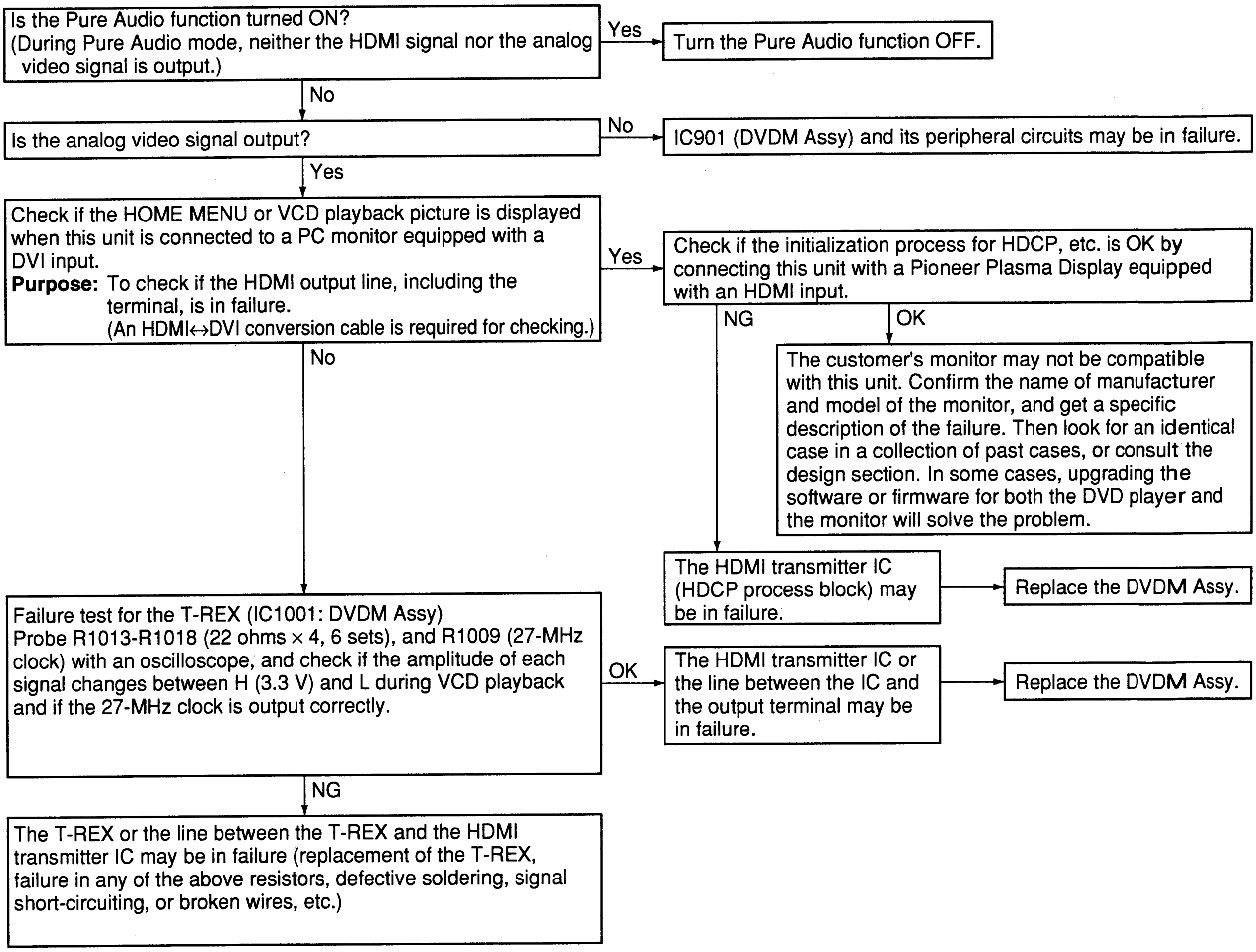
Indicate the error message.

Refer to the section "7.1.6 ERROR DISPLAY".

7.1.8 FAILURE-TEST METHOD FOR THE HDMI TRANSMITTER IC

- When replacing the DVDM Assy, see "7.1.10 DISASSEMBLY"

1 In a case where the HDMI video signal is not output



Is the Pure Audio function turned ON? (During Pure Audio mode, neither the HDMI signal nor the analog video signal is output.)

Turn the Pure Audio function OFF.

Is the analog video signal output?

IC901 (DVDM Assy) and its peripheral circuits may be in failure.

Check if the HOME MENU or VCD playback picture is displayed when this unit is connected to a PC monitor equipped with a DVI input.
Purpose: To check if the HDMI output line, including the terminal, is in failure.
(An HDMI↔DVI conversion cable is required for checking.)

Check if the initialization process for HDCP, etc. is OK by connecting this unit with a Pioneer Plasma Display equipped with an HDMI input.

The customer's monitor may not be compatible with this unit. Confirm the name of manufacturer and model of the monitor, and get a specific description of the failure. Then look for an identical case in a collection of past cases, or consult the design section. In some cases, upgrading the software or firmware for both the DVD player and the monitor will solve the problem.

The HDMI transmitter IC (HDCP process block) may be in failure.

Replace the DVDM Assy.

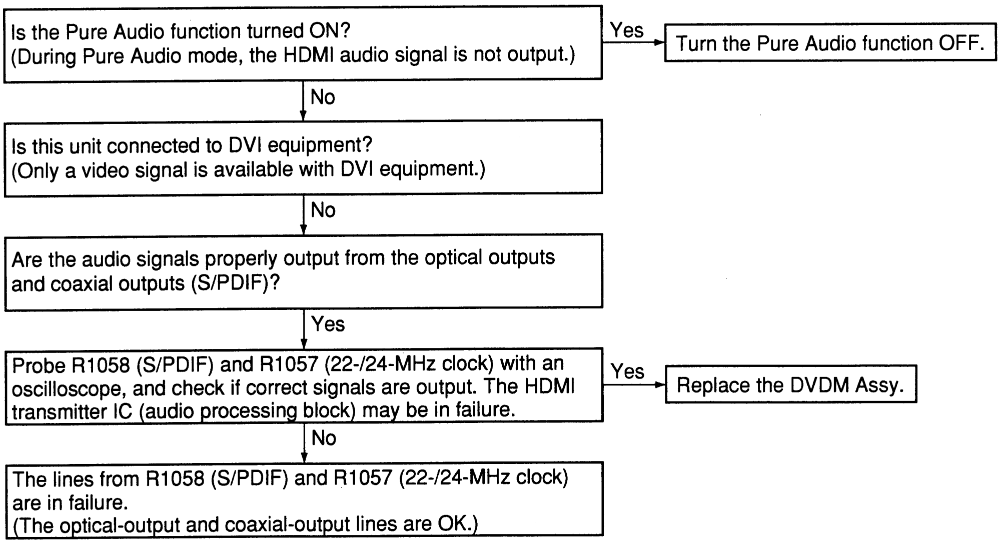
Failure test for the T-REX (IC1001: DVDM Assy)
Probe R1013-R1018 (22 ohms × 4, 6 sets), and R1009 (27-MHz clock) with an oscilloscope, and check if the amplitude of each signal changes between H (3.3 V) and L during VCD playback and if the 27-MHz clock is output correctly.

The HDMI transmitter IC or the line between the IC and the output terminal may be in failure.

Replace the DVDM Assy.

The T-REX or the line between the T-REX and the HDMI transmitter IC may be in failure (replacement of the T-REX, failure in any of the above resistors, defective soldering, signal short-circuiting, or broken wires, etc.)

2 In a case where the HDMI audio signal is not output



Is the Pure Audio function turned ON? (During Pure Audio mode, the HDMI audio signal is not output.)

Turn the Pure Audio function OFF.

Is this unit connected to DVI equipment? (Only a video signal is available with DVI equipment.)

Are the audio signals properly output from the optical outputs and coaxial outputs (S/PDIF)?

Probe R1058 (S/PDIF) and R1057 (22-/24-MHz clock) with an oscilloscope, and check if correct signals are output. The HDMI transmitter IC (audio processing block) may be in failure.

Replace the DVDM Assy.

The lines from R1058 (S/PDIF) and R1057 (22-/24-MHz clock) are in failure. (The optical-output and coaxial-output lines are OK.)

7.1.9 SERIAL-DOWNLOAD

■ SERIAL DOWNLOAD

[Purposes]

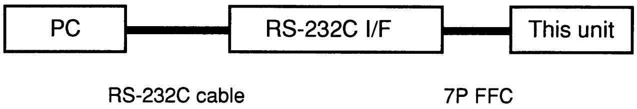
1. To upgrade the system controller and / or host controller.
2. This method is used when disc downloading fails.

[Tools to be used]

- PC with a serial port
- RS-232C straight cable
- RS-232C I/F Special device (GGF1348)
- 7P FFC (VDA1681)
- Program for downloading (UFU.exe)
- Firmware

[Connection]

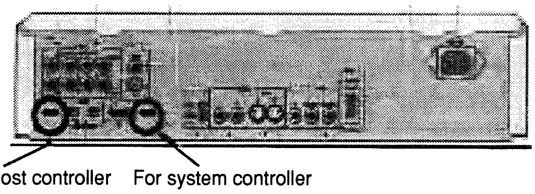
Connect as indicated in the figure below:


PC
RS-232C I/F
This unit
RS-232C cable
7P FFC

[Note]

Note on download connectors of the DV-989AVi-S

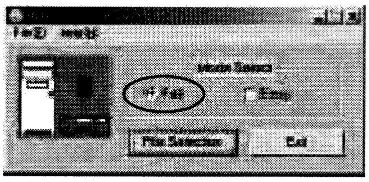
Separate download connectors are provided on the unit for the system controller and host controller. Be sure to connect to the PC via the appropriate connector.


This unit
For host controller
For system controller

[Procedures]

① Connect the 232C I/F jigs above way.

② Turn on the PC and execute the UFU.exe file.


Fast
Easy
File Selection
Exit

③ Select the Firmware. ("sz0" file)

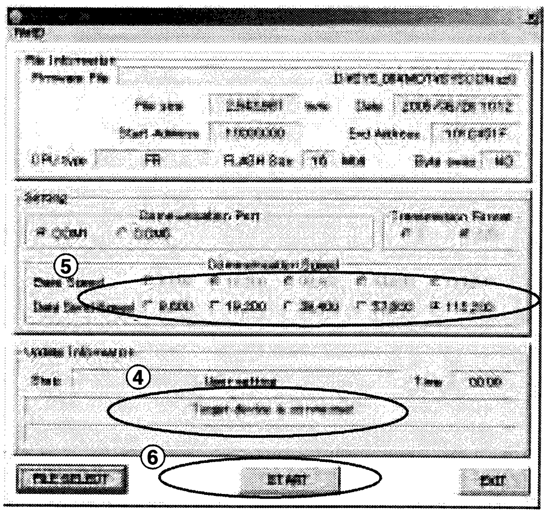
④ Turn on the DVD player and start the downloading.
The message "Target has been connected/started." will be displayed.

⑤ Select the Communication Speed (Baud Rate)

a) Base Speed	19,200
b) Data Send Speed	115,200

⑥ START

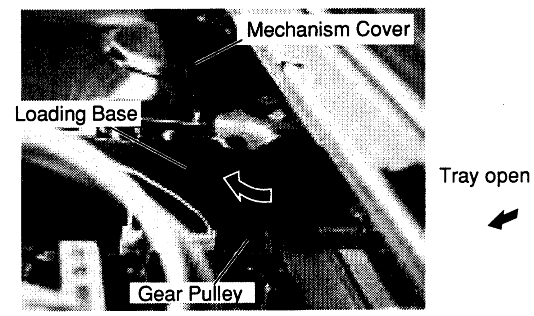
- Downloading may fail because of a communication error. In such a case, click on "START" again.
- If downloading fails three times or more, there may be other cause.
- It takes about 5 minutes to download the firmware.


⑤
9,600
19,200
38,400
57,600
115,200
④
00:00
⑥
FILE SELECT
START
EXIT

7.1.10 DISASSEMBLY

Note 1 : Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.
Note 2 : For performing the diagnosis shown below, the following jigs for service are required:
• 17P flexible cable for service (GGF1157) • Extension board (GGF1430)

Diagnosis of the PCBs


Mechanism Cover
Loading Base
Tray open
Gear Pulley

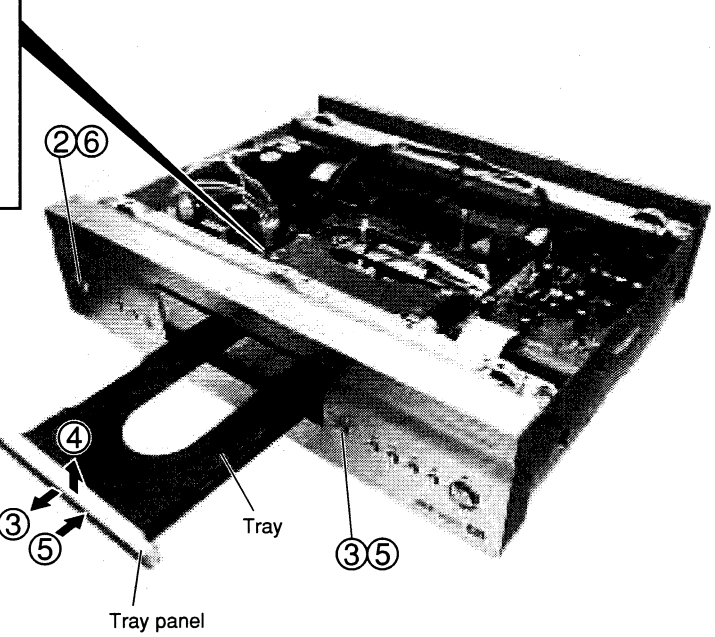
LOADER Assy

How to open the tray when the power cannot be on.

Turn the gear pulley clockwise as indicated. In the photo when the tray opens a little, pull out by hand.

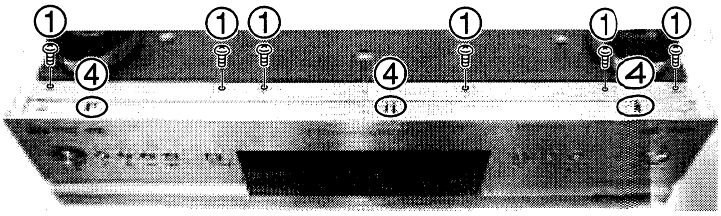
1 Bonnet and Tray Panel

① Remove the bonnet by removing the fifteen screws.
② Press the ⏻ POWER button to turn on the power.
③ Press the ▲ OPEN/CLOSE button to open the tray.
④ Remove the tray panel.
⑤ Press the ▲ OPEN/CLOSE button to close the tray.
⑥ Press the ⏻ POWER button to turn off the power.

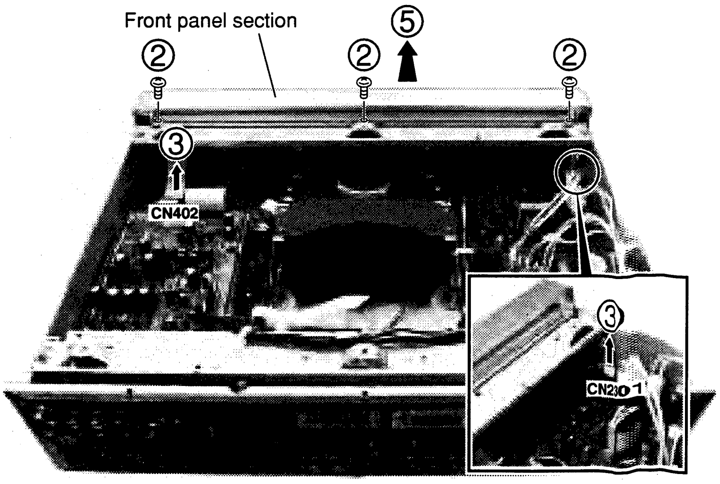

②⑥
④
③
⑤
Tray
③⑤
Tray panel

2 Front Panel Section

① Remove the six screws.
② Remove the three screws.
③ Disconnect the one connector and one flexible cables.
④ Remove the three hooks.
⑤ Remove the front panel section.



• **Bottom view**

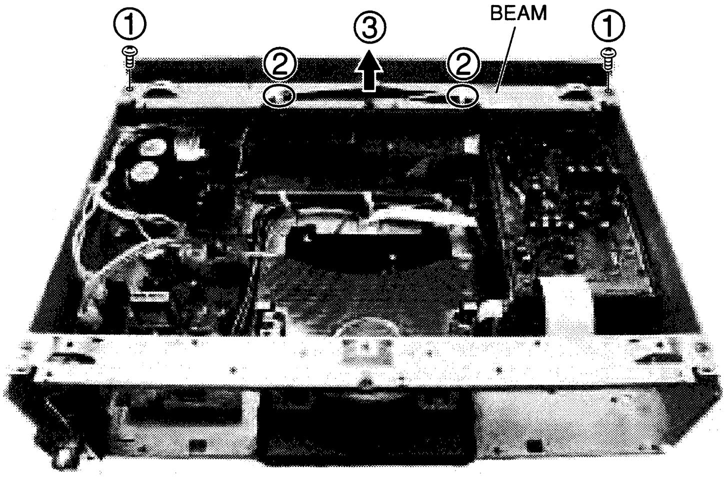

Front panel section
⑤
②
②
②
③
CN402
③
CN201

3 BEAM 989

① Remove the two screws.

② Release the jumper wire from the two clamper.

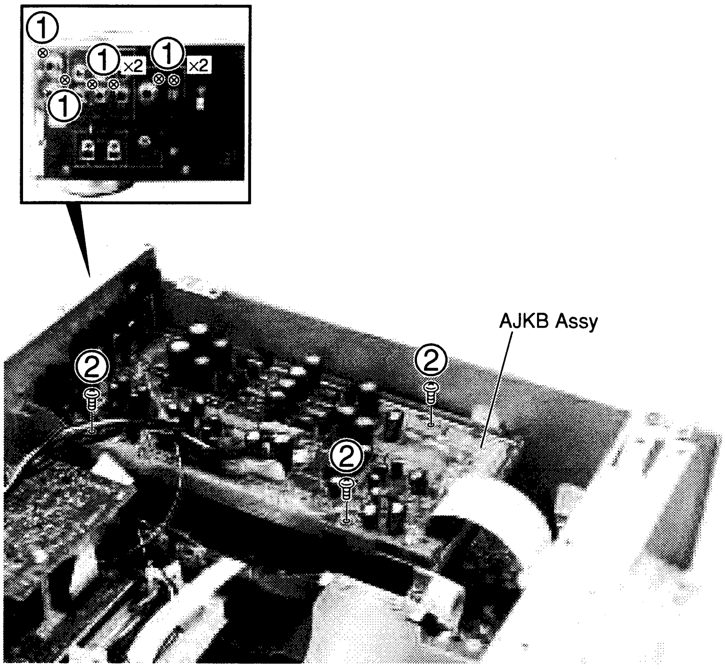
③ Remove the BEAM.



4 AJKB Assy

① Remove the six screws.

② Remove the three screws.

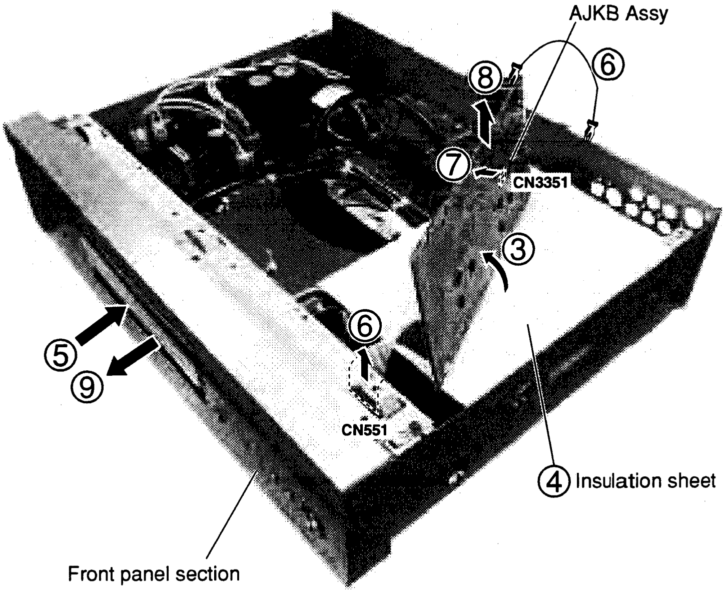

①
①
×2
①
×2
①
AJKB Assy
②
②
②

③ Remove the AJKB Assy and stand it against the other parts.
④ Insert the insulation sheet.
⑤ Re-attatch the front panel section.

↓

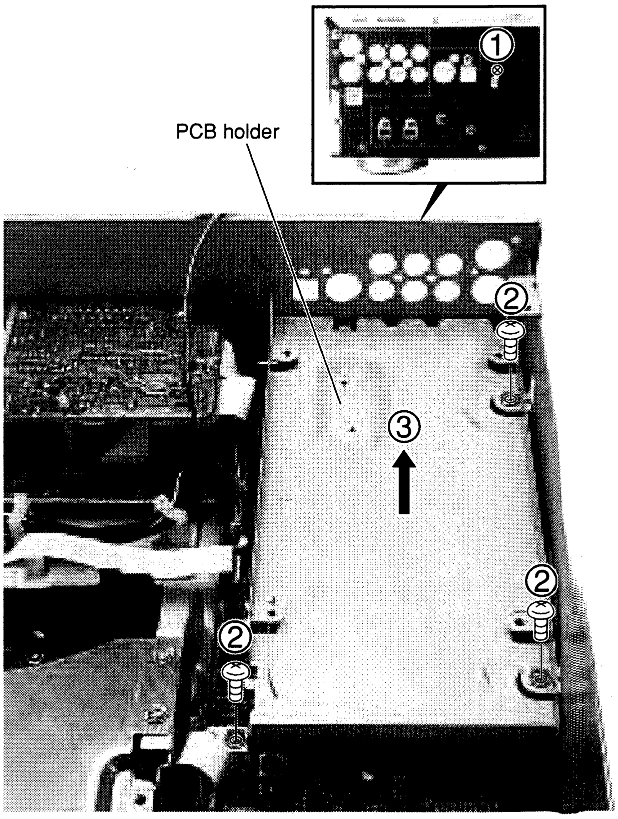
Diagnosis

⑥ Connect the rear-panel to outer of pinjack by wire. (GND plate)
⑦ Disconnect the one connector and one flexible cables.
⑧ Remove the AJKB Assy.
⑨ Remove the front panel section.


AJKB Assy
⑧
⑥
⑦
CN3351
③
⑥
⑤
⑨
CN551
④ Insulation sheet
Front panel section

5 PCB Holder

① Remove the one screw.
② Remove the three screws.
③ Remove the PCB holder.

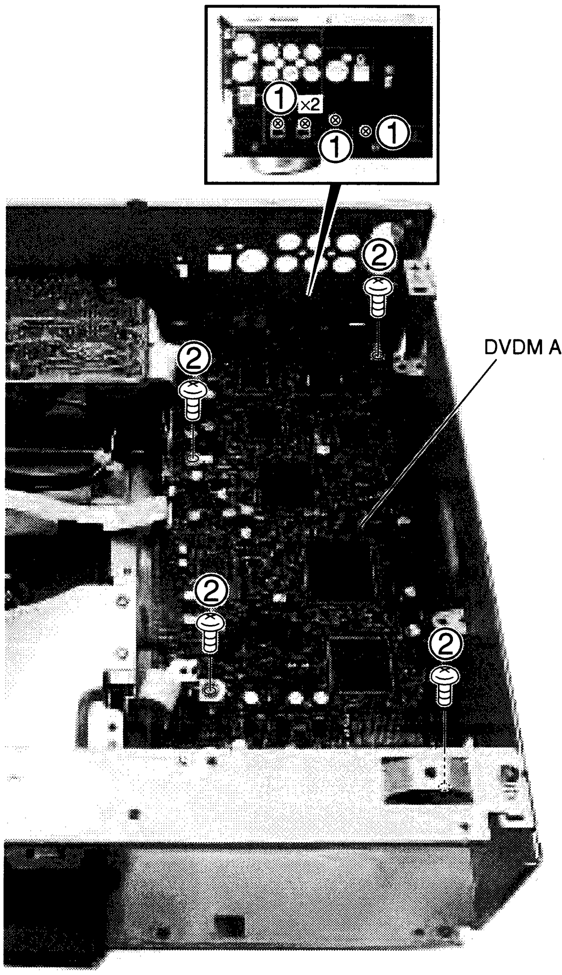

PCB holder
①
②
③
②
②

A B C D E F

6 DVDM Assy

① Remove the four screws.

② Remove the four screws.

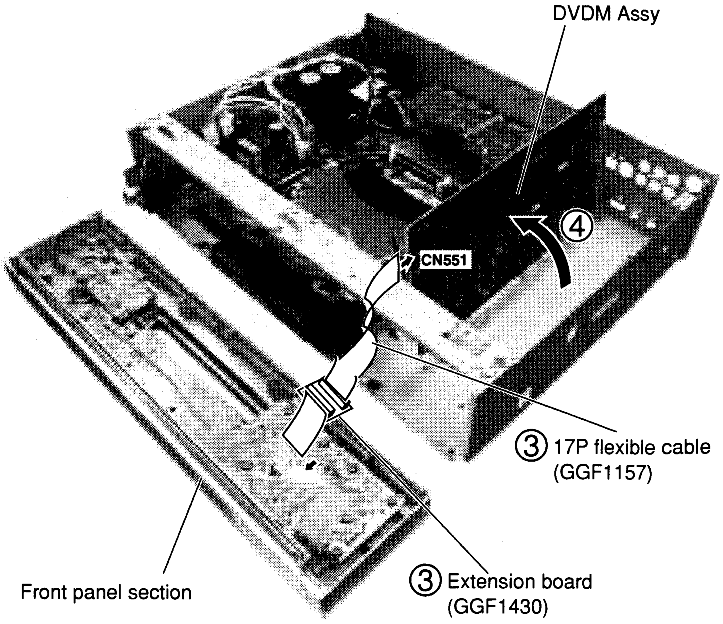

①×2
①
①
②
②
②
②
DVDM Assy

③ Connect the 17P flexible cable and the extension board.

④ Remove the DVDM Assy and stand it against the other parts.

↓

Diagnosis

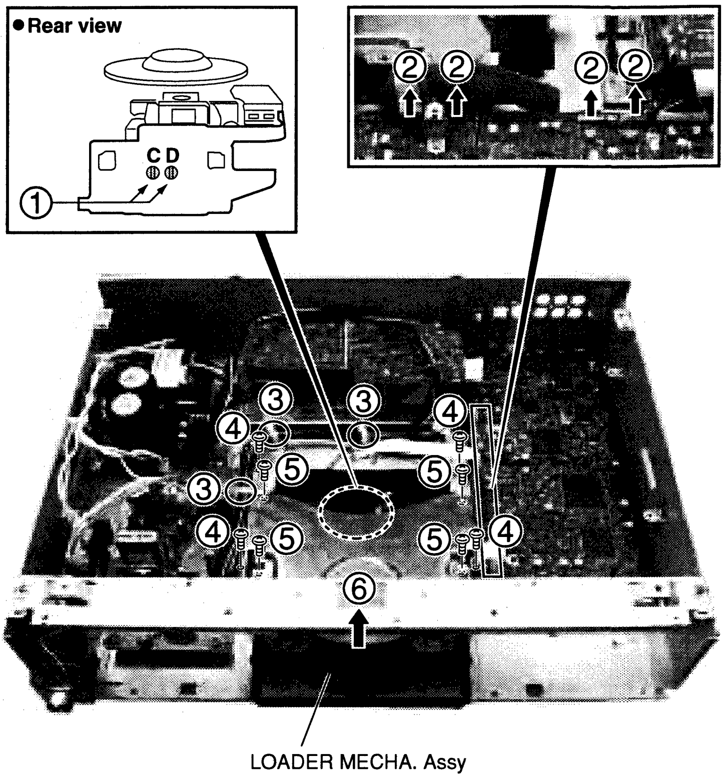

DVDM Assy
CN551
④
③ 17P flexible cable (GGF1157)
Front panel section
③ Extension board (GGF1430)

7 LOADER MECHA. Assy

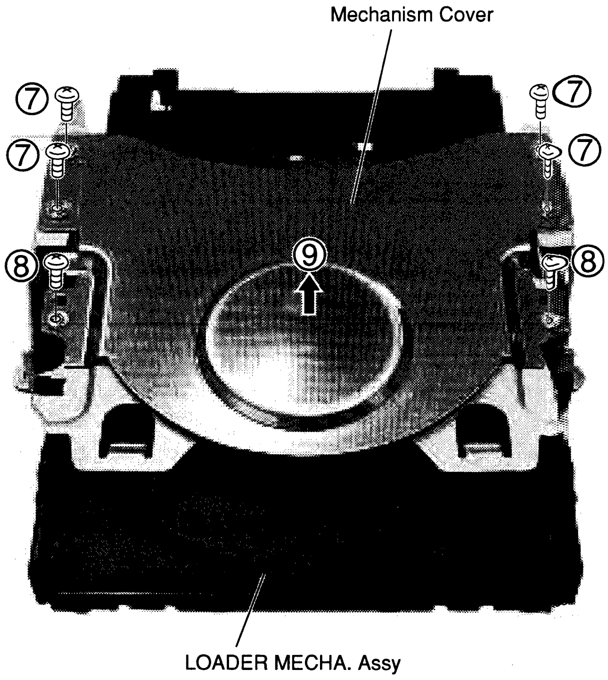
① Short-circuit two points of C and D by soldering.

Note: After replacement, connect the flexible cable, then remove the soldered joint (open).

② Disconnect the one connector and three flexible cables.
③ Release the jumper wire from the three clampers.
④ Remove the four screws.
⑤ Remove the four screws.
⑥ Remove the LOADING MECHA. Assy.


● Rear view
C D
①
② ② ② ②
③ ③ ③
④ ④ ④ ④
⑤ ⑤ ⑤ ⑤
⑥
LOADER MECHA. Assy

⑦ Remove the four screws.
⑧ Remove the two screws.
⑨ Remove the Mechanism Cover.

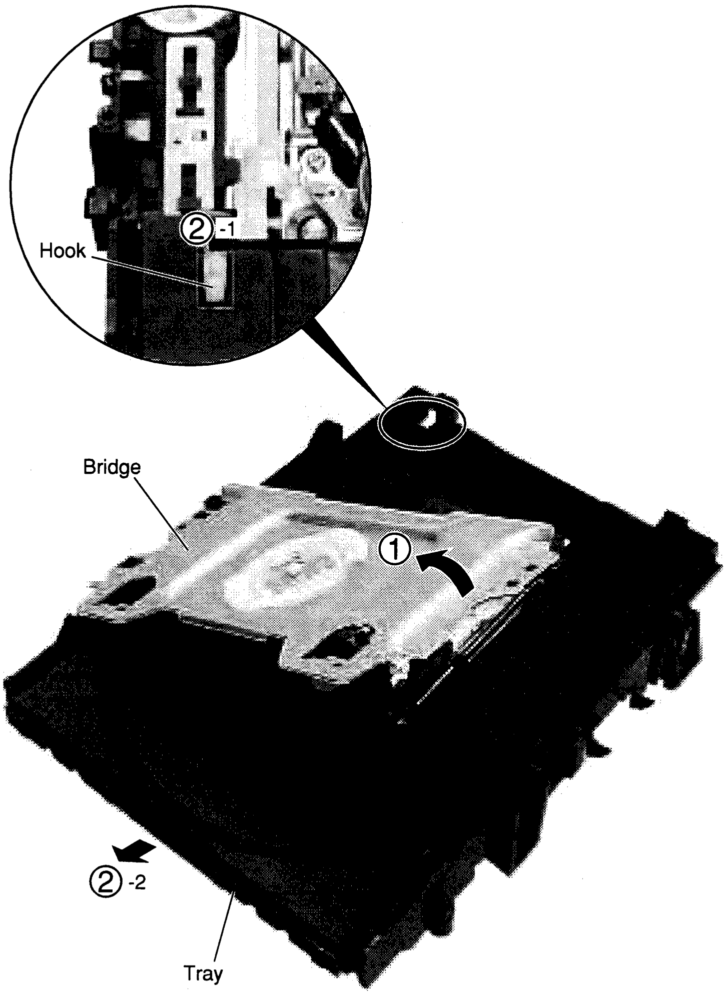

Mechanism Cover
⑦ ⑦ ⑦ ⑦
⑧ ⑧
⑨
LOADER MECHA. Assy

Removing the Traverse Mecha. Assy-S and Pickup Assy-S

1 Bridge and Tray

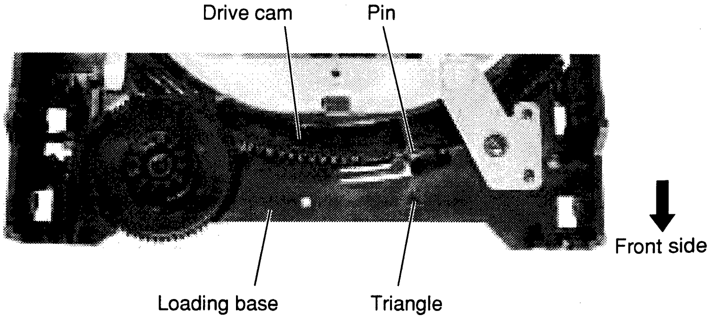
① Remove the bridge.

② Pull out the tray, then remove it by pressing the hook.


Hook
②-1
Bridge
①
②-2
Tray

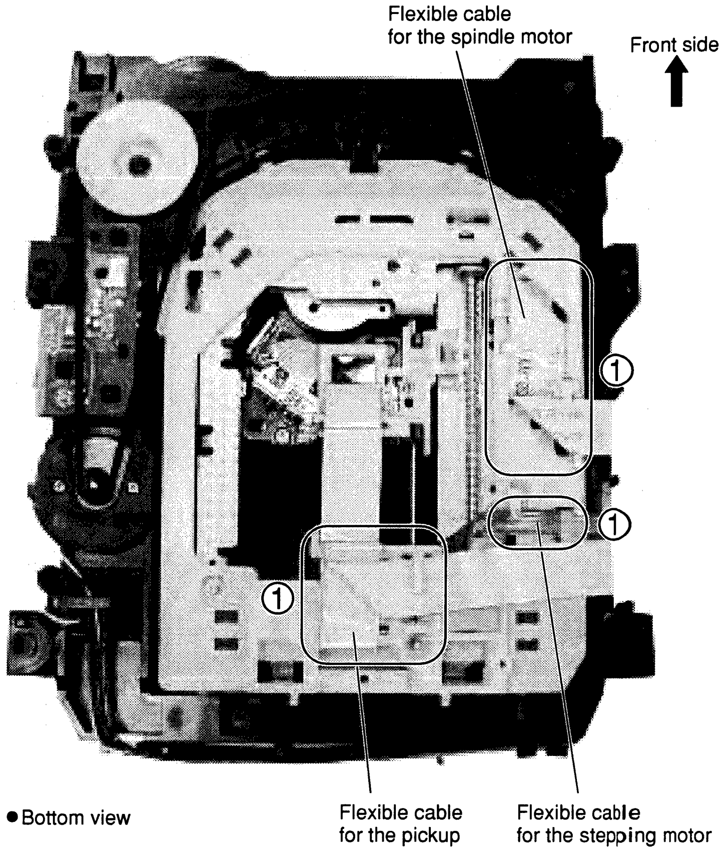
Note when reinserting the tray

When reinserting the tray, first align the triangle printed on the loading base and the pin of the drive cam, then insert the tray.


Drive cam
Pin
Front side
Loading base
Triangle

2 Traverse Mecha. Assy-S

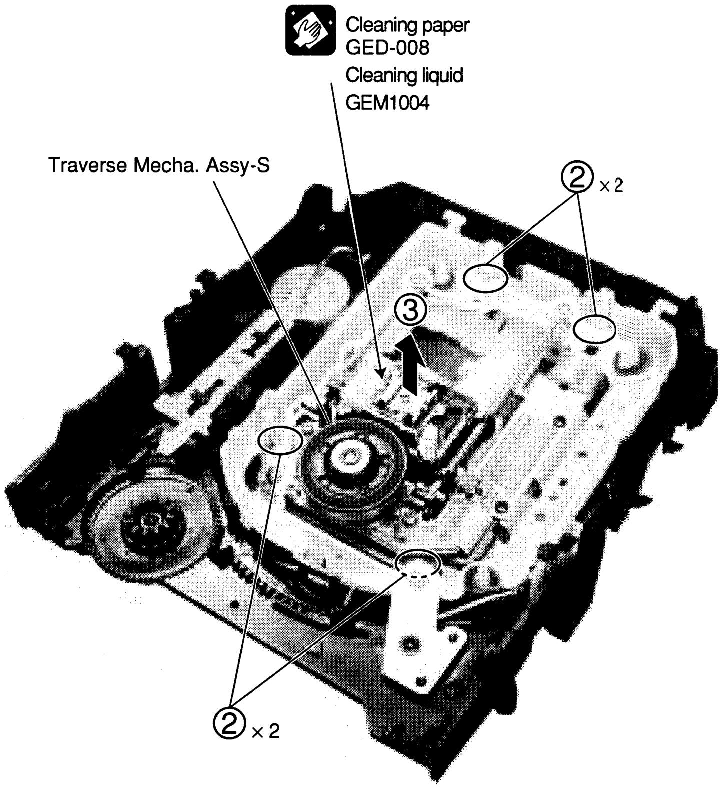
① Dislodge the flexible cables from their factory placement.


Flexible cable
for the spindle motor
Front side
①
①
①
Flexible cable
for the pickup
Flexible cable
for the stepping motor

● Bottom view

② Remove the four hooks.

③ Remove the Traverse Mecha. Assy-S.

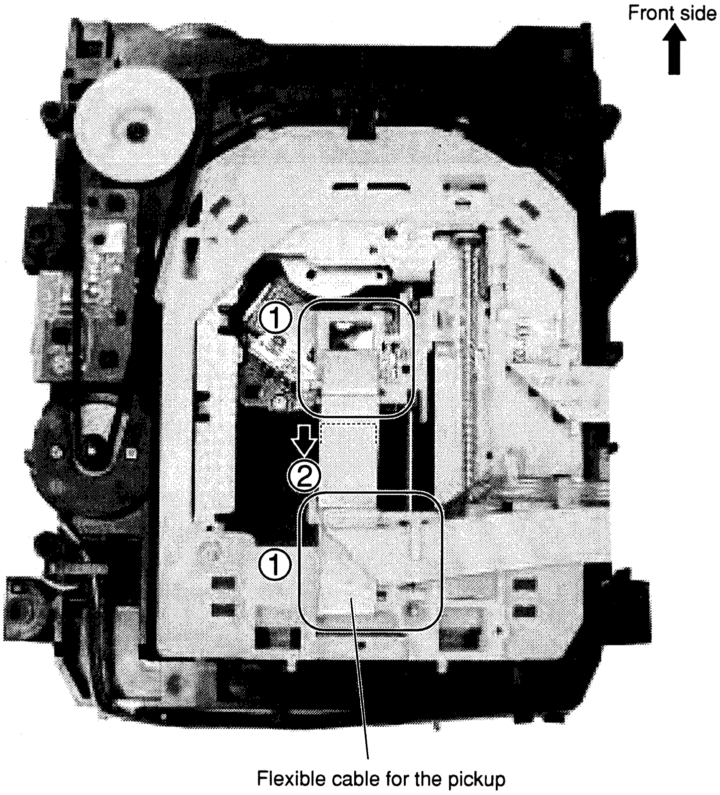

Cleaning paper
GED-008
Cleaning liquid
GEM1004
Traverse Mecha. Assy-S
② × 2
③
② × 2

3 Pickup Assy-S

Note: The Pickup Assy-S can be removed without removing the Traverse Mecha. Assy-S. (shown as Step 2.)

① Dislodge the flexible cable for the pickup from its packaged placement.

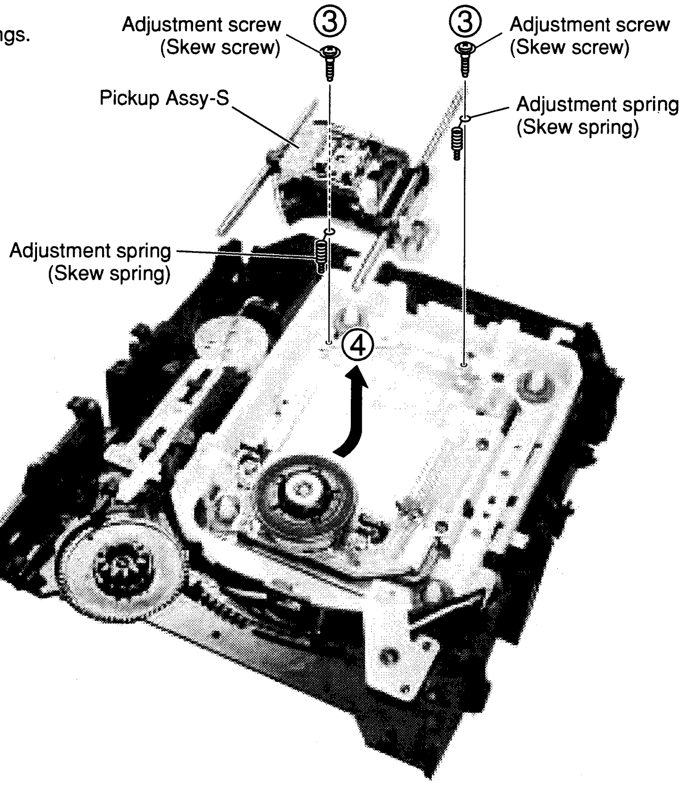
② Remove the flexible cable for the pickup.


Front side
①
②
①
Flexible cable for the pickup

● Bottom view

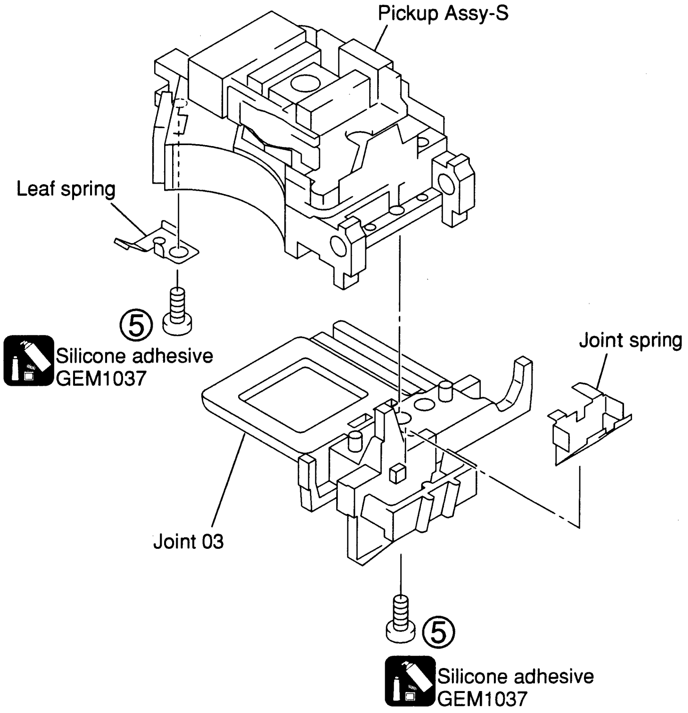
③ Remove the two adjustment screws and two adjustment springs.

④ Remove the Pickup Assy-S.


Adjustment screw (Skew screw)
③
③
Adjustment screw (Skew screw)
Pickup Assy-S
Adjustment spring (Skew spring)
Adjustment spring (Skew spring)
④

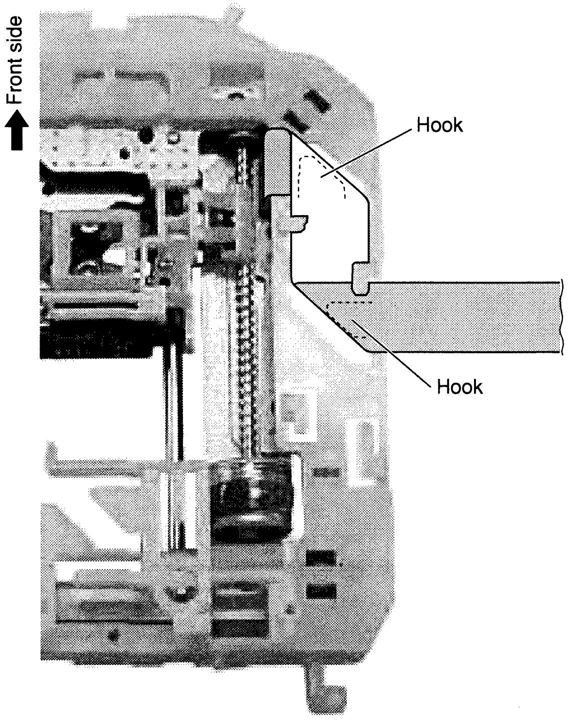
⑤ Remove the two screws.

Note: The screws are secured with the silicone adhesive. Make sure to apply the silicone adhesive after reattaching the screws.


Pickup Assy-S
Leaf spring
⑤
Silicone adhesive
GEM1037
Joint spring
Joint 03
⑤
Silicone adhesive
GEM1037

Arrangement of the flexible cable for the spindle motor

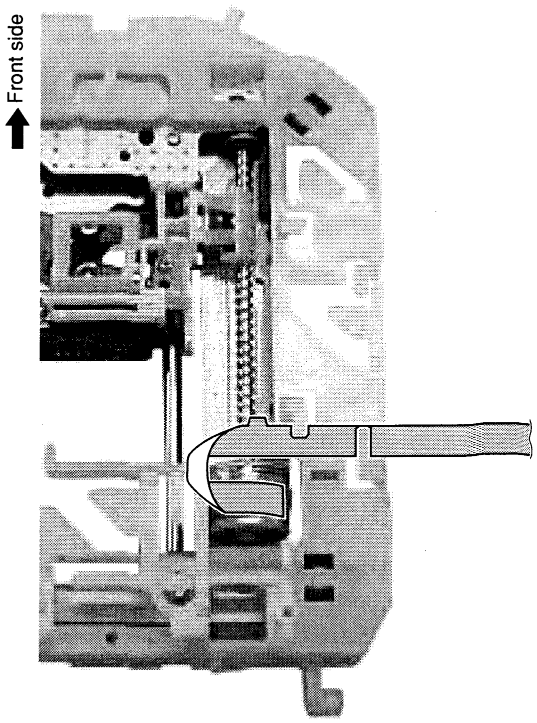
▨ : Conductive surface


Front side
Hook
Hook

● Bottom view

Arrangement of the flexible cable for the stepping motor

▨ : Conductive surface



● Bottom view

Arrangement of the flexible cable for the pickup

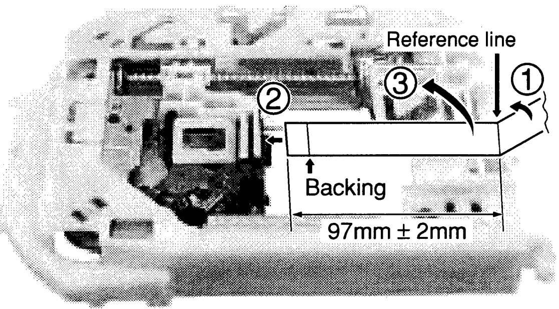
▨ : Conductive surface

Note:
Be sure to move the Pickup Assy-S to the innermost perimeter.

① Fold the flexible cable inward at the position of the reference line.

② Attach the flexible cable of the pickup to the connector.

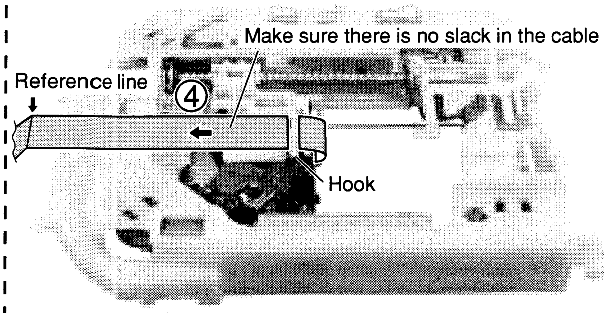
③ Fold the flexible cable of the pickup with the backing inward.


Reference line
③
①
②
Backing
97mm ± 2mm

Front side

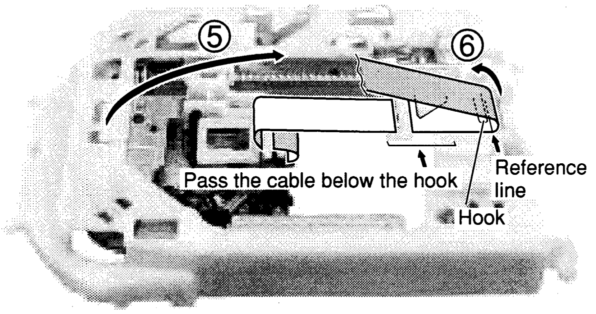
● Bottom view

④ Pass the flexible cable through the hook not allowing any slack.


Make sure there is no slack in the cable
Reference line
④
Hook

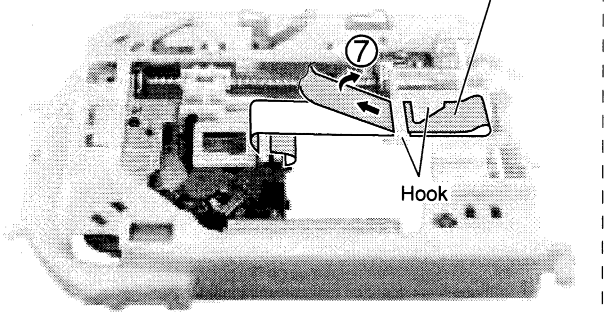
⑤ Fold the flexible cable as indicated in the photo.

⑥ Hook the part folded in Step ① to the hook.


Pass the cable below the hook
⑤
⑥
Reference line
Hook

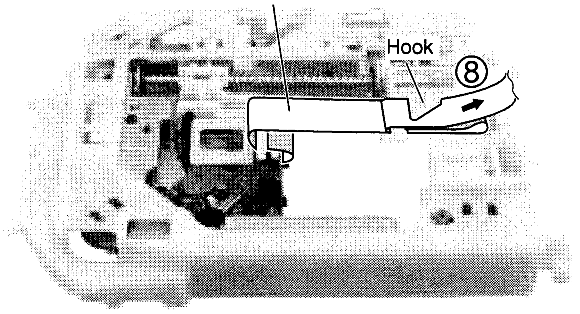
⑦ Pass the flexible cable below the hook, and fold it back.

Make sure that the cable does not have any slack



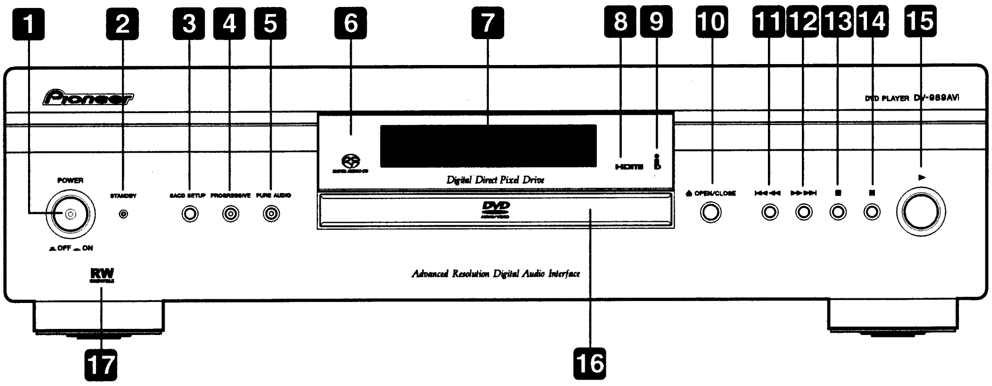
⑧ Fold the flexible cable back at the hook.

Make sure that the cable is loose



8. PANEL FACILITIES

Front panel



1 POWER switch
Press to switch the player on (the power indicator lights blue when the power is on) or off. (The player can be put into standby using the remote control.)

2 STANDBY indicator
Lights when in standby.

3 SACD SETUP button
Press to select which part of an SACD disc you want to listen to – stereo audio (**2ch Area**), multi-channel audio (**Multi-ch Area**) and, for hybrid SACDs, standard CD audio (**CD Area**).

4 PROGRESSIVE button/indicator
Press to switch the component video output mode between progressive and interlace. The indicator lights in progressive scan mode.

- This player is compatible with both PAL and NTSC progressive scan formats. However, your TV must also be progressive scan compatible to take advantage of this feature.

5 PURE AUDIO button/indicator
When the player is stopped, press to switch off/on the front panel display and disable the video and digital outputs*. Use this when you want to hear audio from the analog outputs with no interference from other signals (when listening to a DVD-Audio disc, for example). The indicator lights when the Pure Audio feature is switched on.

* These include i.LINK, HDMI, and the coaxial and optical digital outputs.

6 Remote control sensor
The remote control has a range of up to about 7m.

7 Display

8 HDMI indicator
Lights when this player is recognized by another HDMI or DVI/HDCP compatible component.

9 i.LINK indicator
Lights when this player is recognized by another i.LINK compatible component.

10 ⏏ OPEN/CLOSE
Press to open or close the disc tray (when in standby, this button will also switch the power on).

11 ⏮ ⏪ (reverse scan/skip)

- Press and hold for fast reverse scanning
- Press to jump back to the beginning of the current chapter or track, then to previous chapters/tracks

12 ⏩ ⏭ (forward scan/skip)

- Press and hold for fast forward scanning
- Press to jump to the next chapter or track

13 ■ (stop)
Press to stop the disc (you can resume playback by pressing ► (play)).

14 ❚❚ (pause)
Press to pause playback. Press again to restart.

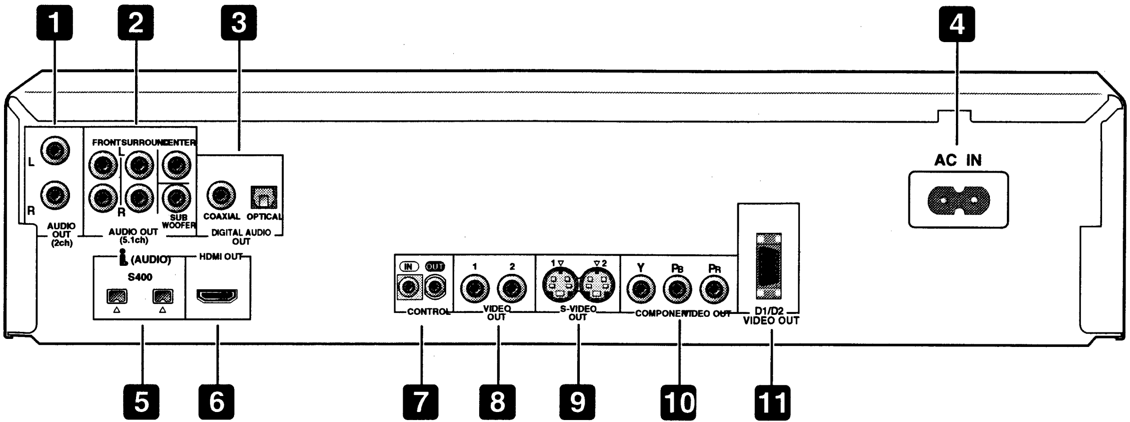
15 ► (play)
Press to start or resume playback (when in standby, this button will also switch the power on).

16 Disc tray

17 RW
This mark indicates compatibility with DVD-RW discs recorded on a DVD recorder in Video Recording mode.

Rear panel

• HLXJ,WPWXJ Only


1
2
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AUDIO OUT (2ch)
FRONT SURROUND CENTER
SUB WOOFER
AUDIO OUT (5.1ch)
COAXIAL OPTICAL
DIGITAL AUDIO OUT
(AUDIO) S400
HDMI OUT
AC IN
CONTROL IN OUT
VIDEO OUT 1 2
S-VIDEO OUT 1 2
Y PB PR COMPONENT VIDEO OUT
D1/D2 VIDEO OUT
5
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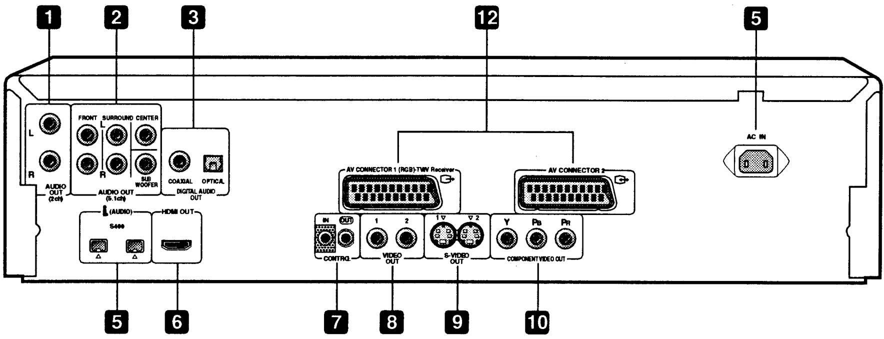
11

Rear panel

• WYXJ,YXJRE Only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12
5
AUDIO OUT (2ch)
FRONT SURROUND CENTER
AUDIO OUT (5.1ch)
SUB WOOFER
COAXIAL OPTICAL
DIGITAL AUDIO OUT
(AUDIO) S400
HDMI OUT
AV CONNECTOR 1 (RGB)-TV/AV Receiver
AV CONNECTOR 2
AC IN
CONTROL
VIDEO OUT
S-VIDEO OUT
COMPONENT VIDEO OUT
5
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When connecting this player up to your TV, AV receiver or other components, make sure that all components are switched off and unplugged.

1 AUDIO OUT (2ch)
Two channel analog audio outputs for connection to your TV, AV receiver or stereo system.

2 AUDIO OUT (5.1ch)
Multichannel analog audio outputs for connection to an AV receiver with multi-channel inputs.

3 DIGITAL AUDIO OUT – OPTICAL / COAXIAL
Digital audio outputs for connection to a PCM, Dolby Digital, DTS and/or MPEG-compatible AV receiver.

4 AC IN
Connect the supplied power cord here, then plug into a power outlet.

5 i (AUDIO) – i.LINK connectors
4-pin, S400 i.LINK connectors for connection to i.LINK-equipped receivers and other components. Each i.LINK connector acts simultaneously as both input and output.

6 HDMI OUT
HDMI output providing a high quality inter-face for digital audio and video.

7 CONTROL IN / OUT
For passing remote control signals to other Pioneer components.

8 VIDEO OUT (1&2)
Standard video output(s) that you can connect to your TV or AV receiver using the supplied audio/video cable.

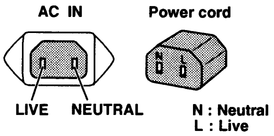
9 S-VIDEO OUT (1&2)
S-Video output(s) that you can use instead of the **VIDEO OUT** jacks.

10 COMPONENT VIDEO OUT
High quality video output for connection to a TV, monitor or AV receiver that has compo-nent video inputs. Connect using a commercially available three-way component video cable. Be careful to match the colors of the jacks and cables for correct connection.

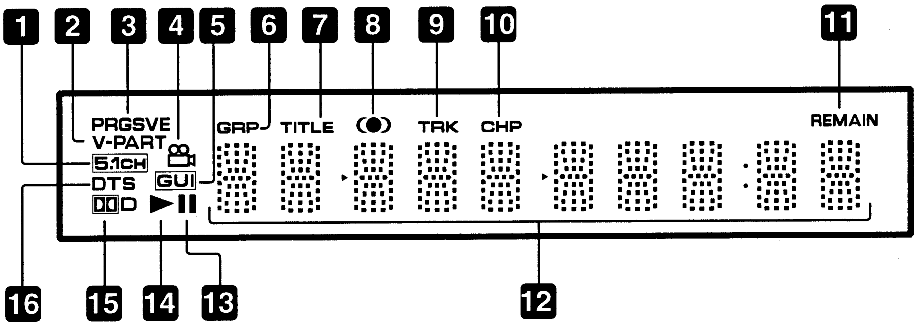
11 D1/D2 VIDEO OUT
(Except Australian model)

12 AV CONNECTORAV CONNECTOR 1 (RGB)-TV/AV Receiver
Use a 21-pin SCART cable to connect to a TV or monitor compatible with this type of connection. Both audio (2 channel stereo) and video (Video, S-video, and RGB) signals are output from the **AV CONNECTOR 1** (RGB)-TV . **AV CONNECTOR 2**Use a 21-pin SCART cable to connect to a VCR .

5 AC IN
Connect the supplied power cord here, then plug into a power outlet. Refer to the illustration below when doing so to make sure the neutral and live blades are lined up properly.


AC IN
Power cord
LIVE
NEUTRAL
N : Neutral
L : Live

Display



1 5.1CH
Lights when analog 5.1 channel output is selected.

2 V-PART
Lights when playing a video part of a DVD disc.

3 PRGSVE
Lights when the video output is progressive scan.

4 🎥
Lights during multi-angle scenes on a DVD disc.

5 GUI (Graphical User Interface)
Lights when a menu is displayed on-screen.

6 GRP
Indicates that the character display is showing a DVD-Audio group number.

7 TITLE
Indicates that the character display is showing a DVD-Video title number.

8 (●)
Lights when ᗡD **V/TruSurround** is active.

9 TRK
Indicates that the character display is showing a track number.

10 CHP
Indicates that the character display is showing a DVD chapter number.

11 REMAIN
Lights when the character display is showing the time or number of tracks/titles/chapters remaining.

12 Character display

13 ❚❚
Lights when a disc is paused.

14 ▶
Lights when a disc is playing.

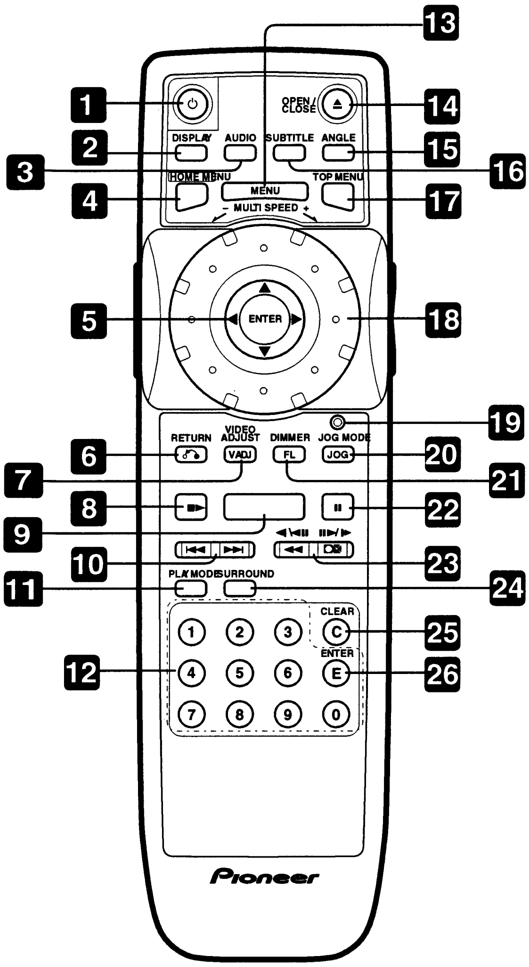
15 ᗡD D
Lights when a Dolby Digital soundtrack is playing.

16 DTS
Lights when a DTS soundtrack is playing.

Remote control

Tip

Press the button on the right side of the remote to illuminate buttons **6** to **9** and **20** to **22**.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26
OPEN/CLOSE
DISPLAY
AUDIO
SUBTITLE
ANGLE
HOME MENU
MENU
TOP MENU
− MULTI SPEED +
ENTER
RETURN
VIDEO ADJUST
DIMMER
JOG MODE
V.ADJ
FL
JOG
PLAY MODE
SURROUND
CLEAR
C
ENTER
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Pioneer

1 ⏻ STANDBY/ON
Press to switch the player on or into standby.

2 DISPLAY
Press to display information about the disc playing.

3 AUDIO
Press to select the audio channel or language .

4 HOME MENU
Press to display (or exit) the on-screen display.

5 ENTER & Joystick
Use to navigate on-screen displays and menus.
Press **ENTER** to select an option or execute a command.

6 ↶ (RETURN)
Press to return to a previous menu screen.

7 V.ADJ (VIDEO ADJUST)
Press to display the Video Adjust menu.

8 ■
Press to stop the disc (you can resume playback by pressing ▶(play)).

9 ▶
Press to start or resume playback.

10 ⏮ ⏭
Press to jump to the start of the previous / next chapter / track.

11 PLAY MODE
Press to display the Play Mode menu (You can also get to the Play Mode menu by pressing **HOME MENU** and selecting **Play Mode**).

12 Number buttons

13 MENU
Press to display a DVD disc menu, or the Disc Navigator if a DVD-RW, CD, Video CD/Super VCD or MP3 disc is loaded.

14 ⏏ OPEN/CLOSE
Press to open or close the disc tray.

15 ANGLE
Press to change the camera angle during DVD multi-angle scene playback.

16 SUBTITLE
Press to select a subtitle display.

17 TOP MENU
Press to display the top menu of a DVD disc.

18 MULTI dial
Use for scanning and slow motion control.

19 Jog indicator
Lights when multi dial is in jog mode.

20 JOG (JOG MODE)
Press to put switch jog mode on/off. When on, use the **MULTI** dial to advance or reverse frames.

21 FL (DIMMER)
Press to change the display brightness.

22 II
Press to pause playback; press again to restart.

23 ◀◀ and ◀I/◀II / ▶▶ and II▶/I▶
Use for reverse / forward slow motion playback, frame reverse / advance and reverse / forward scanning.

24 SURROUND
Press to activate/switch off **DD V/TruSurround**.

25 CLEAR
Press to clear a numeric entry.

26 ENTER
Press to select an option or execute a command.

■ Jigs list

Name	Jig No.	Remarks
Service Remote Control Unit	GGF1381	diagnosis
DVD Data Disc	GGV1174	diagnosis (ID data setting)
17P Flexible Cable	GGF1157	Diagnosis of DVDM Assy
Extension Board	GGF1430	Diagnosis of DVDM Assy
DVD Test Disc (DVD-Video)	GGV1025	Check of DVD-Video
DVD Test Disc (DVD-Audio)	GGV1070	Check of DVD-Audio

■ Lubricants and Glues list

Name	Lubricants and Glues No.	Remark
Dyefree	GEM1036 (ME-913A)	Refer to "2.4 LOADER MECHA SECTION"
Grease	GYA1001 (PN-397)	Refer to "2.4 LOADER MECHA SECTION"
Grease	GEM1018 (G-478B)	Refer to "2.4 LOADER MECHA SECTION"
Sillicone Adhesive	GEM1037	Refer to "2.5 TRAVERSE MECHA SECTION"
Screw Tight	GYL1001	Refer to "2.5 TRAVERSE MECHA SECTION"

■ Cleaning

• Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	Cleaning tools	Remark
Pickup leneses	Cleaning liquid : GEM1004	Refer to "2.5 TRAVERSE MECHA SECTION" , "7.1.10 DISASSEMBLY SECTION".
	Cleaning paper : GED-008	